

**STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY**

In the Matter of Remedial Action by:

The Port of Camas-Washougal

AGREED ORDER

No. DE 9935

TO: Mr. David Ripp, Executive Director
The Port
24 South A Street
Washougal, Washington 98671

TABLE OF CONTENTS

I.	INTRODUCTION.....	2
II.	JURISDICTION.....	2
III.	PARTIES BOUND.....	2
IV.	DEFINITIONS.....	2
V.	FINDINGS OF FACT.....	3
VI.	ECOLOGY DETERMINATIONS.....	4
VII.	WORK TO BE PERFORMED.....	6
VIII.	TERMS AND CONDITIONS OF ORDER.....	7
	A. Public Notice.....	7
	B. Remedial Action Costs.....	7
	C. Implementation of Remedial Action.....	8
	D. Designated Project Coordinators.....	8
	E. Performance.....	9
	F. Access.....	10
	G. Sampling, Data Submittal, and Availability.....	10
	H. Public Participation.....	11
	I. Retention of Records.....	12
	J. Resolution of Disputes.....	13
	K. Extension of Schedule.....	13
	L. Amendment of Order.....	15
	M. Endangerment.....	15
	N. Reservation of Rights.....	16
	O. Transfer of Interest in Property.....	17
	P. Compliance with Applicable Laws.....	17
	Q. Land Use Restrictions.....	18
	R. Periodic Review.....	19
	S. Indemnification.....	19
IX.	SATISFACTION OF ORDER.....	19
X.	ENFORCEMENT.....	20

EXHIBIT A.	Site Diagram
EXHIBIT B.	Clark County Property Information
EXHIBIT C.	Cleanup Action Plan

I. INTRODUCTION

The mutual objective of the State of Washington, Department of Ecology (Ecology) and the Port of Camas-Washougal (the Port) under this Agreed Order (Order) is to provide for remedial action at a facility where there has been a release or threatened release of hazardous substances. This Order requires the Port to: (i) conduct the terrestrial ecological evaluation necessary to support the Cleanup Action Plan which has been developed pursuant to this Order and is attached hereto as Exhibit "C", (ii) based upon the results of the terrestrial ecological evaluation, modify the Cleanup Action Plan as directed by Ecology, and (iii) implement the requirements of the Cleanup Action Plan. Ecology believes the actions required by this Order are in the public interest.

II. JURISDICTION

This Agreed Order is issued pursuant to the Model Toxics Control Act (MTCA), RCW 70.105D.050(1).

III. PARTIES BOUND

This Agreed Order shall apply to and be binding upon the Parties to this Order, their successors and assigns. The undersigned representative of each Party hereby certifies that he or she is fully authorized to enter into this Order and to execute and legally bind such Party to comply with this Order. The Port agrees to undertake all actions required by the terms and conditions of this Order. No change in ownership or corporate status shall alter the Port's responsibility under this Order. The Port shall provide a copy of this Order to all agents, contractors, and subcontractors retained to perform work required by this Order, and shall ensure that all work undertaken by such agents, contractors, and subcontractors complies with this Order.

IV. DEFINITIONS

Unless otherwise specified herein, the definitions set forth in Chapter 70.105D RCW and Chapter 173-340 WAC shall control the meanings of the terms in this Order.

A. Site: The Site is referred to as Hambleton Bros Log Yard and is generally located at 335 South A Street, Washougal, WA. The Site is defined by the extent of contamination caused by the release of hazardous substances at the Site. Based upon factors currently known to Ecology, the Site is more particularly described in the Site Diagram (Exhibit A). The Site constitutes a Facility under RCW 70.105D.020(5).

B. Parties: Refers to the State of Washington, Department of Ecology and the Port.

C. Port Property: Refers to the Property owned by the Port as described in the Site Diagram (Exhibit A).

D. Potentially Liable Person (PLP): Refers to the Port.

E. Agreed Order or Order: Refers to this Order and each of the exhibits to this Order. All exhibits are integral and enforceable parts of this Order. The terms "Agreed Order" or "Order" shall include all exhibits to this Order.

V. FINDINGS OF FACT

Ecology makes the following findings of fact, without any express or implied admissions of such facts by the Port:

A. The Port Property is a portion of the Hambleton Bros Log Yard property as shown on the attached Clark County Assessor's Office record (Exhibit B). The Hambleton Bros Log Yard Site is located at 335 South A Street in Washougal, Washington. The original Hamilton Bros Log Yard property encompassed 25 acres. The Site is made up of two of the three existing new parcels and encompasses a total of approximately 13.23 acres. The Site (new parcel 2 and 3 on Exhibit B) is described by parcel numbers 73134153 and 73134179. The Site is located in Sections 7, 12 and 13, Township 1 North, Range 4 East of Willamette Meridian.

B. A Phase 1 Environmental Site Assessment by Certified Environmental Consulting, Inc. in 2006 recognized several environmental conditions were present at the Site, including three underground and five above ground storage tanks, pond surface water sheen, possible presence of dioxins from 2009 fire, and PCB's, metals, and PAHs in soil and pond sediment.

C. A Preliminary Work Plan for Log Pond Decommissioning prepared by Certified Environmental Consulting, Inc. and Evren Northwest, August 20, 2008, describes sediment and surface water sampling at the log pond prior to proposed decommissioning. Analysis of sediment samples indicated elevated concentrations of diesel and residual oil range petroleum hydrocarbons, Methylene chloride, copper and lead. Surface water samples detected elevated concentrations of gas, diesel and residual range petroleum hydrocarbons, naphthalene, 4-methylphenol, arsenic and chromium. The work plan recommended removal and treatment of log pond water, and removal and disposal of pond sediment.

D. A Draft Initial Independent Cleanup Report and Risk Assessment by Certified Environmental Consulting, Inc. in 2009 describes a magnetic survey and subsurface environmental investigation. The survey did not find any underground storage tanks. The report recommended decommissioning the log pond, removing surficial soil underlying the mill area, and a subsequent residual risk assessment incorporating these two actions.

E. A Draft Focused Site Assessment Report prepared by Maul Foster & Alongi, Inc., January 16, 2012, identified metals, polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs), and petroleum hydrocarbons and their constituents above MTCA cleanup levels at the Site. This report was deemed to satisfy the substantive requirements of a MTCA remedial investigation and feasibility study.

F. The Port prepared a draft Cleanup Action Plan and a Terrestrial Ecological Evaluation. Based upon the comments from Ecology and the results of the Terrestrial Ecological Evaluation, the Port completed the Cleanup Action Plan. This work was deemed to satisfy the substantive requirements of WAC 173-340 and is consistent with the remedial actions under this Order.

VI. ECOLOGY DETERMINATIONS

A. PLP is an "owner or operator" as defined in RCW 70.105D.020(17) of a "facility" as defined in RCW 70.105D.020(5).

B. Based upon all factors known to Ecology, a “release” or “threatened release” of “hazardous substance(s)” as defined in RCW 70.105D.020(25) and RCW 70.105D.020(10), respectively, has occurred at the Site.

C. Based upon credible evidence, Ecology issued a PLP status letter to the Port dated March 29, 2013, pursuant to RCW 70.105D.040, -.020(21) and WAC 173-340-500. By letter dated April 2, 2013, the Port voluntarily waived its rights to notice and comment and accepted Ecology’s determination that the Port is a PLP under RCW 70.105D.040.

D. Pursuant to RCW 70.105D.030(1) and -.050(1), Ecology may require PLPs to investigate or conduct other remedial actions with respect to any release or threatened release of hazardous substances, whenever it believes such action to be in the public interest. Based on the foregoing facts, Ecology believes the remedial actions required by this Order are in the public interest.

E. Under WAC 173-340-430, an interim action is a remedial action that is technically necessary to reduce a threat to human health or the environment by eliminating or substantially reducing one or more pathways for exposure to a hazardous substance, that corrects a problem that may become substantially worse or cost substantially more to address if the remedial action is delayed, or that is needed to provide for completion of a Site hazard assessment, remedial investigation/feasibility study or design of a cleanup action.

F. Ecology hereby incorporates into this Order the previous remedial actions described in Section V.F. Reimbursement for specific project tasks under a grant agreement with Ecology is contingent upon a determination by Ecology’s Toxics Cleanup Program that the work performed complies with the substantive requirements of Chapter 173-340 WAC and is consistent with the remedial action required under this Order. The costs associated with Ecology’s determinations on the past independent remedial actions described in Section V.F are recoverable under this Order.

VII. WORK TO BE PERFORMED

Based on the Findings of Fact and Ecology Determinations, it is hereby ordered that the Port take the following remedial actions at the Site and that these actions be conducted in accordance with Chapter 173-340 WAC unless otherwise specifically provided for herein:

A. Within one hundred and twenty (120) days of the finalizing the Cleanup Action Plan, the Port will submit a draft Engineering Design Report describing detailed designs for the selected remedy for Ecology's approval. The proposed remedy includes removal and proper disposal of pond water, consolidation of impacted material in the log pond, and then backfilling with non-impacted and imported backfill. The log pond, mill area and aggregate recycling area will be capped with at least two (2) feet of clean, imported backfill, including a geotextile demarcation layer. Ecology comments will be submitted to the Port within sixty (60) days of receipt of draft Engineering Design Report. The Port will finalize Engineering Design Report within thirty (30) days of receipt of Ecology's comments and submit to Ecology.

B. Groundwater monitoring will be performed according to the schedule and as described in the Cleanup Action Plan.

C. Data submittal reports will be submitted to Ecology within thirty (30) days of receipt by the Port of all final validated environmental data.

D. A draft Remedial Action Report will be submitted to Ecology thirty (30) days following receipt by the Port of validated confirmation soil samples. Ecology comments will be submitted to the Port within sixty (60) days of receipt of draft Remedial Action Report. The Port will finalize Remedial Action Report within thirty (30) days of receipt of Ecology's comments and submit to Ecology.

E. Within thirty (30) days of finalization of the Remedial Action Report, the Port shall submit a draft Soil Management Plan for Ecology review. The draft Soil Management and Cap Maintenance Plan will describe management and maintenance actions to be performed by the Port. Ecology will submit comments to the Port within thirty (30) days of receipt of draft Soil Management and Cap Maintenance Plan. The Port will finalize Soil Management and Cap

Maintenance Plan within twenty (20) days of receipt of Ecology comments. Once approved by Ecology, this report becomes an integral and enforceable part of this Order.

F. Within thirty days (30) days from completion of the final Soil Management and Cap Maintenance Plan, the Port will submit an environmental covenant. An environmental covenant will be recorded by the Port for the Site to restrict future use of the Site. Ecology must approve this deliverable within thirty (30) days of receipt, and once approved by Ecology, this report becomes an integral and enforceable part of this Order.

G. If, at any time after the first exchange of comments on drafts, Ecology determines that insufficient progress is being made in the preparation of any of the deliverables required by this Section, Ecology may complete and issue the final deliverable.

VIII. TERMS AND CONDITIONS OF ORDER

A. Public Notice

RCW 70.105D.030(2)(a) requires that, at a minimum, this Order be subject to concurrent public notice. Ecology shall be responsible for providing such public notice and reserves the right to modify or withdraw any provisions of this Order should public comment disclose facts or considerations which indicate to Ecology that this Order is inadequate or improper in any respect.

B. Remedial Action Costs

The Port shall pay to Ecology costs incurred by Ecology pursuant to this Order and consistent with WAC 173-340-550(2) and billed to the Port. These costs shall include work performed by Ecology or its contractors for, or on, the Site under Chapter 70.105D RCW, including remedial actions and Order preparation, negotiation, oversight, and administration. These costs shall include work performed subsequent to the issuance of this Order. Ecology's costs shall include costs of direct activities and support costs of direct activities as defined in WAC 173-340-550(2). For all costs incurred subsequent to effective date of this agreed order, the Port shall pay the required amount within thirty (30) days of receiving from Ecology an

itemized statement of costs that includes a summary of costs incurred, an identification of involved staff, and the amount of time spent by involved staff members on the project. A general statement of work performed will be provided upon request. Itemized statements shall be prepared quarterly. Pursuant to WAC 173-340-550(4), failure to pay Ecology's costs within ninety (90) days of receipt of the itemized statement of costs will result in interest charges at the rate of twelve percent (12%) per annum, compounded monthly.

In addition to other available relief, pursuant to RCW 19.16.500, Ecology may utilize a collection agency and/or, pursuant to RCW 70.105D.055, file a lien against real property subject to the remedial actions to recover unreimbursed remedial action costs.

C. Implementation of Remedial Action

If Ecology determines that the Port has failed without good cause to implement the remedial action, in whole or in part, Ecology may, after notice to the Port, perform any or all portions of the remedial action that remain incomplete. If Ecology performs all or portions of the remedial action because of the Port's failure to comply with its obligations under this Order, the Port shall reimburse Ecology for the costs of doing such work in accordance with Section VIII. B. (Remedial Action Costs), provided that the Port is not obligated under this Section to reimburse Ecology for costs incurred for work inconsistent with or beyond the scope of this Order. Except where necessary to abate an emergency situation, the Port shall not perform any remedial actions at the Site outside those remedial actions required.

D. Designated Project Coordinators

The project coordinator for Ecology is:

Guy Barrett, LHG
PO Box 47775
Olympia, WA 98504
360-407-7115

The project coordinator for the Port is:

Alan Hughes
Maul Foster & Alongi, Inc.
7223 NE Hazel Dell Avenue, Suite B
Vancouver, Washington 98665
360-433-0217

Each project coordinator shall be responsible for overseeing the implementation of this Order. Ecology's project coordinator will be Ecology's designated representative for the Site. To the maximum extent possible, communications between Ecology and the Port, and all documents, including reports, approvals, and other correspondence concerning the activities performed pursuant to the terms and conditions of this Order shall be directed through the project coordinators. The project coordinators may designate, in writing, working level staff contacts for all or portions of the implementation of the work to be performed required by this Order.

Any Party may change its respective project coordinator. Written notification shall be given to the other Party at least ten (10) calendar days prior to the change.

E. Performance

All geologic and hydrogeologic work performed pursuant to this Order shall be under the supervision and direction of a geologist licensed in the State of Washington or under the direct supervision of an engineer registered in the State of Washington, except as otherwise provided for by Chapters 18.220 and 18.43 RCW.

All engineering work performed pursuant to this Order shall be under the direct supervision of a professional engineer registered in the State of Washington, except as otherwise provided for by RCW 18.43.130.

All construction work performed pursuant to this Order shall be under the direct supervision of a professional engineer or a qualified technician under the direct supervision of a professional engineer. The professional engineer must be registered in the State of Washington, except as otherwise provided for by RCW 18.43.130.

Any documents submitted containing geologic, hydrologic or engineering work shall be under the seal of an appropriately licensed professional as required by Chapter 18.220 RCW or RCW 18.43.130.

The Port shall notify Ecology in writing of the identity of any engineer(s) and geologist(s), contractor(s) and subcontractor(s), and others to be used in carrying out the terms of this Order, in advance of their involvement at the Site.

F. Access

Ecology or any Ecology authorized representative shall have the full authority to enter and freely move about all property at the Site that the Port either owns, controls, or has access rights to at all reasonable times for the purposes of, *inter alia*: inspecting records, operation logs, and contracts related to the work being performed pursuant to this Order; reviewing the Port's progress in carrying out the terms of this Order; conducting such tests or collecting such samples as Ecology may deem necessary; using a camera, sound recording, or other documentary type equipment to record work done pursuant to this Order; and verifying the data submitted to Ecology by the Port. The Port shall make all reasonable efforts to secure access rights for those properties within the Site not owned or controlled by the Port where remedial activities or investigations will be performed pursuant to this Order. Ecology or any Ecology authorized representative shall give reasonable notice before entering any Site property owned or controlled by the Port unless an emergency prevents such notice. All persons who access the Site pursuant to this Section shall comply with any applicable Health and Safety Plan(s). Ecology employees and their representatives shall not be required to sign any liability release or waiver as a condition of Site property access.

G. Sampling, Data Submittal, and Availability

With respect to the implementation of this Order, the Port shall make the results of all sampling, laboratory reports, and/or test results generated by it or on its behalf available to Ecology. Pursuant to WAC 173-340-840(5), all sampling data shall be submitted to Ecology in both printed and electronic formats in accordance with Section VII (Work to be Performed), Ecology's Toxics Cleanup Program Policy 840 (Data Submittal Requirements), and/or any subsequent procedures specified by Ecology for data submittal.

If requested by Ecology, the Port shall allow Ecology and/or its authorized representative to take split or duplicate samples of any samples collected by the Port pursuant to implementation of this Order. The Port shall notify Ecology seven (7) days in advance of any sample collection or work activity at the Site. Ecology shall, upon request, allow the Port and/or

its authorized representative to take split or duplicate samples of any samples collected by Ecology pursuant to the implementation of this Order, provided that doing so does not interfere with Ecology's sampling. Without limitation on Ecology's rights under Section VIII. (Access), Ecology shall notify the Port prior to any sample collection activity unless an emergency prevents such notice.

In accordance with WAC 173-340-830(2)(a), all hazardous substance analyses shall be conducted by a laboratory accredited under Chapter 173-50 WAC for the specific analyses to be conducted, unless otherwise approved by Ecology.

H. Public Participation

A Public Participation Plan is required for this Site. Ecology shall review any existing Public Participation Plan to determine its continued appropriateness and whether it requires amendment, or if no plan exists, Ecology shall develop a Public Participation Plan alone or in conjunction with the Port.

Ecology shall maintain the responsibility for public participation at the Site. However, the Port shall cooperate with Ecology, and shall:

1. If agreed to by Ecology, develop appropriate mailing list, prepare drafts of public notices and fact sheets at important stages of the remedial action, such as the submission of work plans, remedial investigation/feasibility study reports, cleanup action plans, and engineering design reports. As appropriate, Ecology will edit, finalize, and distribute such fact sheets and prepare and distribute public notices of Ecology's presentations and meetings.

2. Notify Ecology's project coordinator prior to the preparation of all press releases and fact sheets, and before major meetings with the interested public and local governments where this remediation is the primary subject of the meeting. This notification provision shall not apply to such things as commission meetings and routine community outreach, such as speeches to civic groups. Likewise, Ecology shall notify the Port prior to the issuance of all press releases and fact sheets, and before major meetings with the interested public and local governments. For all press releases, fact sheets, meetings, and other outreach efforts by the Port that do not receive

prior Ecology approval, the Port shall clearly indicate to its audience that the press release, fact sheet, meeting, or other outreach effort was not sponsored or endorsed by Ecology.

3. When requested by Ecology, participate in public presentations on the progress of the remedial action at the Site. Participation may be through attendance at public meetings to assist in answering questions or as a presenter.

4. When requested by Ecology, arrange and/or continue information repositories to be located at the following locations:

- a. **Camas Library**
625 NE 4th Avenue
Camas WA 98607
360.834.4692
- b. **Washougal Community Library**
1661 C Street
Washougal, WA 98671
360.835.5393
- c. Ecology's **Southwest Regional Office**
300 Desmond Drive
Lacey, WA 98504

At a minimum, copies of all public notices, fact sheets, and documents relating to public comment periods shall be promptly placed in these repositories. A copy of all documents related to this Site shall be maintained in the repository at Ecology's Southwest Regional Office in Olympia, Washington.

I. Retention of Records

During the pendency of this Order, and for ten (10) years from the date of completion of work performed pursuant to this Order, the Port shall preserve all records, reports, documents, and underlying data in its possession relevant to the implementation of this Order and shall insert a similar record retention requirement into all contracts with project contractors and subcontractors. Upon request of Ecology, the Port shall make all records available to Ecology and allow access for review within a reasonable time.

J. Resolution of Disputes

1. In the event a dispute arises as to an approval, disapproval, proposed change, or other decision or action by Ecology's project coordinator, or an itemized billing statement under Section VIII. (Remedial Action Costs), the Parties shall utilize the dispute resolution procedure set forth below.

a. Upon receipt of Ecology's project coordinator's written decision or the itemized billing statement, the Port has fourteen (14) days within which to notify Ecology's project coordinator in writing of its objection to the decision or itemized statement.

b. The Parties' project coordinators shall then confer in an effort to resolve the dispute. If the project coordinators cannot resolve the dispute within fourteen (14) days, Ecology's project coordinator shall issue a written decision.

c. The Port may then request regional management review of the decision. This request shall be submitted in writing to the Southwest Region Toxics Cleanup Section Manager within seven (7) days of receipt of Ecology's project coordinator's written decision.

d. The Section Manager shall conduct a review of the dispute and shall endeavor to issue a written decision regarding the dispute within thirty (30) days of the Port's request for review. The Section Manager's decision shall be Ecology's final decision on the disputed matter.

2. The Parties agree to only utilize the dispute resolution process in good faith and agree to expedite, to the extent possible, the dispute resolution process whenever it is used.

3. Implementation of these dispute resolution procedures shall not provide a basis for delay of any activities required in this Order, unless Ecology agrees in writing to a schedule extension.

K. Extension of Schedule

1. An extension of schedule shall be granted only when a request for an extension is submitted in a timely fashion, generally at least thirty (30) days prior to expiration of the

deadline for which the extension is requested, and good cause exists for granting the extension.

All extensions shall be requested in writing. The request shall specify:

- a. The deadline that is sought to be extended;
- b. The length of the extension sought;
- c. The reason(s) for the extension; and
- d. Any related deadline or schedule that would be affected if the extension

were granted.

2. The burden shall be on the Port to demonstrate to the satisfaction of Ecology that the request for such extension has been submitted in a timely fashion and that good cause exists for granting the extension. Good cause may include, but may not be limited to:

a. Circumstances beyond the reasonable control and despite the due diligence of the Port including delays caused by unrelated third parties or Ecology, such as (but not limited to) delays by Ecology in reviewing, approving, or modifying documents submitted by the Port;

b. Acts of God, including fire, flood, blizzard, extreme temperatures, storm, or other unavoidable casualty; or

c. Endangerment as described in Section VIII. M. (Endangerment).

However, neither increased costs of performance of the terms of this Order nor changed economic circumstances shall be considered circumstances beyond the reasonable control of the Port.

3. Ecology shall act upon any written request for extension in a timely fashion. Ecology shall give the Port written notification of any extensions granted pursuant to this Order. A requested extension shall not be effective until approved by Ecology. Unless the extension is a substantial change, it shall not be necessary to amend this Order pursuant to Section VIII. L. (Amendment of Order) when a schedule extension is granted.

4. An extension shall only be granted for such period of time as Ecology determines is reasonable under the circumstances. Ecology may grant schedule extensions exceeding ninety (90) days only as a result of:

- a. Delays in the issuance of a necessary permit which was applied for in a timely manner;
- b. Other circumstances deemed exceptional or extraordinary by Ecology; or
- c. Endangerment as described in Section VIII. M. (Endangerment).

L. Amendment of Order

The project coordinators may verbally agree to minor changes to the work to be performed without formally amending this Order. Minor changes will be documented in writing by Ecology within seven (7) days of verbal agreement.

Except as provided in Section VIII. N. (Reservation of Rights), substantial changes to the work to be performed shall require formal amendment of this Order. This Order may only be formally amended by the written consent of both Ecology and the Port. The Port shall submit a written request for amendment to Ecology for approval. Ecology shall indicate its approval or disapproval in writing and in a timely manner after the written request for amendment is received. If the amendment to this Order represents a substantial change, Ecology will provide public notice and opportunity to comment. Reasons for the disapproval of a proposed amendment to this Order shall be stated in writing. If Ecology does not agree to a proposed amendment, the disagreement may be addressed through the dispute resolution procedures described in Section VIII. J. (Resolution of Disputes).

M. Endangerment

In the event Ecology determines that any activity being performed at the Site is creating or has the potential to create a danger to human health or the environment on or surrounding the Site, Ecology may direct the Port to cease such activities for such period of time as it deems necessary to abate the danger. The Port shall immediately comply with such direction.

In the event the Port determines that any activity being performed at the Site is creating or has the potential to create a danger to human health or the environment, the Port may cease such activities. The Port shall notify Ecology's project coordinator as soon as possible, but no later than twenty-four (24) hours after making such determination or ceasing such activities. Upon Ecology's direction the Port shall provide Ecology with documentation of the basis for the determination or cessation of such activities. If Ecology disagrees with the Port's cessation of activities, it may direct the Port to resume such activities.

If Ecology concurs with or orders a work stoppage pursuant to this Section, the Port's obligations with respect to the ceased activities shall be suspended until Ecology determines the danger is abated, and the time for performance of such activities, as well as the time for any other work dependent upon such activities, shall be extended in accordance with Section VIII. K. (Extension of Schedule) for such period of time as Ecology determines is reasonable under the circumstances.

Nothing in this Order shall limit the authority of Ecology, its employees, agents, or contractors to take or require appropriate action in the event of an emergency.

N. Reservation of Rights

This Order is not a settlement under Chapter 70.105D RCW. Ecology's signature on this Order in no way constitutes a covenant not to sue or a compromise of any of Ecology's rights or authority. Ecology will not, however, bring an action against the Port to recover remedial action costs paid to and received by Ecology under this Order. In addition, Ecology will not take additional enforcement actions against the Port regarding remedial actions required by this Order, provided the Port complies with this Order.

Ecology nevertheless reserves its rights under Chapter 70.105D RCW, including the right to require additional or different remedial actions at the Site should it deem such actions necessary to protect human health and the environment, and to issue orders requiring such remedial actions. Ecology also reserves all rights regarding the injury to, destruction of, or loss of natural resources resulting from the release or threatened release of hazardous substances at

the Site. Likewise, The Port reserves its rights under Chapter 70.105D RCW, including the right to contest any Ecology direction for additional or different remedial actions at the Site, any orders requiring such remedial actions and any claim regarding the injury to, destruction of, or loss of natural resources resulting from the release or threatened release of hazardous substances at the Site.

O. Transfer of Interest in Property

No voluntary conveyance or relinquishment of title, easement, leasehold, or other interest in any portion of the Site shall be consummated by The Port without provision for continued implementation of all requirements of this Order and implementation of any remedial actions found to be necessary as a result of this Order.

Prior to the Port's transfer of any interest in all or any portion of the Site, and during the effective period of this Order, the Port shall provide a copy of this Order to any prospective purchaser, lessee, transferee, assignee, or other successor in said interest; and, at least thirty (30) days prior to any transfer, the Port shall notify Ecology of said transfer. Upon transfer of any interest, the Port shall restrict uses and activities to those consistent with this Order and notify all transferees of the restrictions on the use of the property.

P. Compliance with Applicable Laws

1. All actions carried out by the Port pursuant to this Order shall be done in accordance with all applicable federal, state, and local requirements, including requirements to obtain necessary permits, except as provided in RCW 70.105D.090. At this time, no federal, state or local requirements have been identified as being applicable to the actions required by this Order.

2. Pursuant to RCW 70.105D.090(1), the Port is exempt from the procedural requirements of Chapters 70.94, 70.95, 70.105, 77.55, 90.48, and 90.58 RCW and of any laws requiring or authorizing local government permits or approvals. However, the Port shall comply with the substantive requirements of such permits or approvals. At this time, no state or local

permits or approvals have been identified as being applicable but procedurally exempt under this Section.

3. The Port has a continuing obligation to determine whether additional permits or approvals addressed in RCW 70.105D.090(1) would otherwise be required for the remedial action under this Order. In the event either Ecology or the Port determines that additional permits or approvals addressed in RCW 70.105D.090(1) would otherwise be required for the remedial action under this Order, it shall promptly notify the other Party of its determination. Ecology shall determine whether Ecology or the Port shall be responsible to contact the appropriate state and/or local agencies. If Ecology so requires, the Port shall promptly consult with the appropriate state and/or local agencies and provide Ecology with written documentation from those agencies of the substantive requirements those agencies believe are applicable to the remedial action. Ecology shall make the final determination on the additional substantive requirements that must be met by the Port and on how the Port must meet those requirements. Ecology shall inform the Port in writing of these requirements. Once established by Ecology, the additional requirements shall be enforceable requirements of this Order. The Port shall not begin or continue the remedial action potentially subject to the additional requirements until Ecology makes its final determination.

4. Pursuant to RCW 70.105D.090(2), in the event Ecology determines that the exemption from complying with the procedural requirements of the laws referenced in RCW 70.105D.090(1) would result in the loss of approval from a federal agency that is necessary for the State to administer any federal law, the exemption shall not apply and the Port shall comply with both the procedural and substantive requirements of the laws referenced in RCW 70.105D.090(1), including any requirements to obtain permits.

Q. Land Use Restrictions

The Port shall record a Restrictive Covenant with the office of the Clark County Auditor within thirty (30) days of the completion of the remedial action. The Restrictive Covenant shall

restrict future uses of the Site. The Port shall provide Ecology with a copy of the recorded Restrictive Covenant within thirty (30) days of the recording date.

R. Periodic Review

As remedial action, including groundwater monitoring, continues at the Site, the Parties agree to review the progress of remedial action at the Site, and to review the data accumulated as a result of monitoring the Site as often as is necessary and appropriate under the circumstances. At least every five (5) years after the initiation of cleanup action at the Site the Parties shall meet to discuss the status of the Site and the need, if any, for further remedial action at the Site. At least ninety (90) days prior to each periodic review, the Port shall submit a report to Ecology that documents whether human health and the environment are being protected based on the factors set forth in WAC 173-340-420(4). Ecology reserves the right to require further remedial action at the Site under appropriate circumstances in the form of additional orders. The Port reserves the right to contest the issuance of these additional orders. This provision shall remain in effect for the duration of this Order.

S. Indemnification

To the extent permitted by law, the Port agrees to indemnify and save and hold the State of Washington, its employees, and agents harmless from any and all claims or causes of action for death or injuries to persons or for loss or damage to property to the extent arising from or on account of acts or omissions of the Port, its officers, employees, agents, or contractors in entering into and implementing this Order. However, the Port shall not indemnify the State of Washington nor save nor hold its employees and agents harmless from any claims or causes of action to the extent arising out of the negligent acts or omissions of the State of Washington, or the employees or agents of the State, in entering into or implementing this Order.

IX. SATISFACTION OF ORDER

The provisions of this Order shall be deemed satisfied upon the Port's receipt of written notification from Ecology that the Port has completed the remedial activity required by this

Order, as amended by any modifications, and that the Port has complied with all other provisions of this Agreed Order.

X. ENFORCEMENT

Pursuant to RCW 70.105D.050, this Order may be enforced as follows:

A. The Attorney General may bring an action to enforce this Order in a state or federal court.

B. The Attorney General may seek, by filing an action, if necessary, to recover amounts spent by Ecology for investigative and remedial actions and orders related to the Site.

C. In the event the Port refuses, without sufficient cause, to comply with any term of this Order, the Port will be liable for:

a. Up to three (3) times the amount of any costs incurred by the State of Washington as a result of its refusal to comply; and

b. Civil penalties of up to twenty-five thousand dollars (\$25,000) per day for each day it refuses to comply.

D. This Order is not appealable to the Washington Pollution Control Hearings Board. This Order may be reviewed only as provided under RCW 70.105D.060.

Effective date of this Order: _____

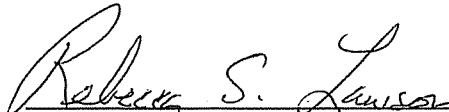
June 28, 2013

THE PORT



David Ripp
Executive Director
The Port
24 South 'A' Street
Washougal, WA 98671
Telephone: 360-835-2196, *101

STATE OF WASHINGTON, DEPARTMENT OF ECOLOGY



Rebecca S. Lawson, P.E., LHG
Section Manager
Toxics Cleanup Program
Southwest Regional Office
Telephone: 360-407-6241

Exhibit A.

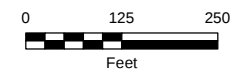


SITE DIAGRAM

Port of Camas-Washougal
Washougal, Washington

Legend

 Site Boundary



Source: Aerial photograph obtained from ESRI, Inc. ArcGIS Online/Bing Maps; site boundary is approximate and based on legal description provided by KC Development (Sept. 10, 2012)



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Clark County Property Information

Account Summary

Account No: 73134153**Property Type:** Real**Property Status:** Active **Tax Status:** TOTAL EXEMPTION**Site Address:** 335 S A ST, WASHOUGAL, 98671 ([Situs Addresses](#))**Abbreviated Legal Description:** #153, #154, #178 DAVID C. PARKER DLC 5.47A**Demographics**

Socioeconomic Data
Census 2010 Profiles

GIS Programs

Index of Atlas Maps
GIS Metadata
GIS Training
Annexation Tracker

Storefront

Digital Data
Applications
Publications
Printed Maps
Custom Maps
Photography
Developer's Packet

Reports

Vacant Lands

Contacts

Staff List
Office Location

Account	Building	Environmental	Taxes	Documents	Permits	Sales Search	Maps Online	New Search
Property Owner PORT OF CAMAS - WASHOUGAL				Owner Mailing Address 24 SOUTH A STREET WASHOUGAL WA , 98671 US		Property Location Address 335 S A ST, WASHOUGAL, 98671 Google Maps Street Viewer Bing Maps Birds Eye Viewer		
Administrative Data Info...				Land Data		Assessment Data Info...		
Zoning Designation Codes... CH				Clark County Road Atlas page 3		2012 Values for 2013 Taxes		
Zoning Overlay(s) none				Approximate Area Info... 238,273 sq. ft.		Market Value as of January 1, 2012		
Comprehensive Plan GC				5.47 acres		Land Value \$712,300.00		
Comp. Plan Overlay(s) none				Subdivision no data		Building Value \$0.00		
Census Tract 415.00				Survey 042200		Total Property \$712,300.00		
Jurisdiction Washougal				Sales History		Taxable Value		
Fire District Washougal				Sale Date 11/16/2012		Total \$0.00		
Park District District 0				Document Type CONT		General		
School District Washougal				Excise Number 685603		Re-valuation Cycle 5		
Elementary Hathaway				Document Number 4912867		Assessor Neighborhood 9860		
Middle School Jemtegaard				Sale Amount \$5,944,503.00				
High School Washougal				Sale Date 11/16/2012				
Sewer District Washougal				Document Type D-FF				
Water District Washougal				Excise Number 685603				
Neighborhood n/a				Document Number 4912869				
Section-Township-Range SE				Sale Amount				
1/4,S12,T1N,R3E				Sale Date 11/15/2012				
Image: .TIF				Document Type D-B&S				
or .PDF				Excise Number 685607				
Section-Township-Range SW				Document Number 4912870				
1/4,S07,T1N,R4E				Sale Amount \$6,070,000.00				
Image: .TIF				Sale Date 10/02/2012				
or .PDF				Document Type BLA				
Section-Township-Range NE				Excise Number 685602				
1/4,S13,T1N,R3E				Document Number 4912866				
Image: .TIF				Sale Amount				
or .PDF				Sale Date 08/10/2010				
Urban Growth Area Washougal				Document Type D-WARR				
C-Tran Benefit Area Yes				Excise Number 657626				
School Impact Fee Washougal				Document Number				
Transportation Impact Fee Washougal				Sale Amount				
Transportation Analysis Zone 427				Sale Date 11/30/2005				
Waste Connections Monday				Document Type D-QCD				
Garbage Collection Day								
CPU Lighting Utility District 0								
Burning Allowed No								
Wildland Urban Interface/Intermix No Mapping Indicators								



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Contacts

Staff List
Office Location

Clark County Property Information

Account Summary

Account No: 73134179

Property Type: Real

Property Status: Active **Tax Status:** TOTAL EXEMPTION

Site Address: (Situs Addresses)

Abbreviated Legal Description: #180 D. C. PARKER DLC 7.76A

Account	Building	Environmental	Taxes	Documents	Permits	Sales Search	Maps Online	New Search
Property Owner PORT OF CAMAS - WASHOUGAL				Owner Mailing Address 24 SOUTH A STREET WASHOUGAL WA , 98671 US		Property Location Address Google Maps Street Viewer Bing Maps Birds Eye Viewer		
Administrative Data Info...				Land Data		Assessment Data Info...		
Zoning Designation			Codes... CH	Clark County Road Atlas	page 3	2012 Values for 2013 Taxes		
Zoning Overlay(s)			none	Approximate Area Info...	338,026	Market Value as of January 1, 2012		
Comprehensive Plan			GC		sq. ft.			
			UL		7.76 acres			
Comp. Plan Overlay(s)			none	Subdivision	no data	Land Value \$1,010,400.00		
Census Tract			415.00	Survey	042200	Building Value \$0.00		
Jurisdiction			Washougal			Total Property \$1,010,400.00		
Fire District			Washougal			Taxable Value		
Park District			District 0			Total \$0.00		
School District			Washougal	Sales History		2011 Values for 2012 Taxes		
Elementary			Hathaway	Sale Date	11/16/2012	Market Value as of January 1, 2011		
Middle School			Jemtegaard	Document Type	CONT			
High School			Washougal	Excise Number	685603	Land Value \$1,124,700.00		
Sewer District			Washougal	Document Number	4912867	Building Value \$0.00		
Water District			Washougal	Sale Amount	\$5,944,503.00	Total Property \$1,124,700.00		
Neighborhood			n/a			Taxable Value		
Section-Township-Range			NE	Sale Date	11/16/2012	Total \$0.00		
			1/4,S13,T1N,R3E	Document Type	D-FF			
			Image: TIF	Excise Number	685603			
			or PDF	Document Number	4912869			
Section-Township-Range			SE	Sale Amount				
			1/4,S12,T1N,R3E					
			Image: TIF					
			or PDF	Sale Date	11/15/2012	General		
Urban Growth Area			Washougal	Document Type	D-B&S	Re-valuation Cycle		
C-TRAN Benefit Area			Yes	Excise Number	685607	Assessor Neighborhood 5 9860		
School Impact Fee			Washougal	Document Number	4912870			
Transportation Impact Fee			Washougal	Sale Amount	\$6,070,000.00			
Transportation Analysis Zone			427					
Waste Connections			Monday	Sale Date	10/02/2012			
Garbage Collection Day			0	Document Type	BLA			
CPU Lighting Utility District			No	Excise Number	685602			
Burning Allowed			No Mapping	Document Number	4912866			
Wildland Urban Interface/Intermix			Indicators	Sale Amount				
				Sale Date	03/01/1999			
				Document Type	D-QCD			
				Excise Number	444704			
				Document Number				
				Sale Amount	\$0.00			

If you have questions concerning the data on this page, please contact the Clark County Assessor's Office. Main Phone: (360) 397-2391, Email: assrqls@clark.wa.gov

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RCW 42.56.070(9) prohibits releasing and/or using lists of individuals gathered from this site for commercial purposes.

Exhibit C.



DRAFT CLEANUP ACTION PLAN

Hambleton Bros Log Yard
Washougal, WA

May 2013
Washington State Department of Ecology
Toxics Cleanup Program
Southwest Regional Office
Lacey, WA

TABLE OF CONTENTS

DRAFT CLEANUP ACTION PLAN	I
1.0 INTRODUCTION	1
1.1 DECLARATION	1
1.2 APPLICABILITY	1
1.3 ADMINISTRATIVE RECORD.....	1
1.4 CLEANUP PROCESS	2
2.0 SITE CONDITIONS	2
2.1 PROPERTY DESCRIPTION AND HISTORY	2
2.1.1 Topography and Climate	3
2.1.2 Geology and Hydrogeology	3
3.0 ENVIRONMENTAL CONDITIONS	3
3.1 SOIL	4
3.2 GROUNDWATER	4
3.3 SURFACE WATER	4
3.4 SEDIMENT	5
4.0 CLEANUP STANDARDS	5
4.1 TERRESTRIAL ECOLOGICAL EVALUATION	5
4.2 SITE CLEANUP LEVELS	6
4.3 POINT OF COMPLIANCE	6
5.0 CLEANUP ACTION SELECTION	6
5.1 REMEDIAL ACTION OBJECTIVES	6
5.2 CLEANUP ACTION ALTERNATIVES	7
5.2.1 Alternative 1: Excavation and off-site disposal of contaminated soil and log pond sediment	7
5.2.2 Alternative 2: Capping and institutional controls.....	8
5.3 REGULATORY REQUIREMENTS.....	9
5.3.1 Threshold Requirements.....	9
5.3.2 Other Requirements.....	9
5.3.3 Groundwater Cleanup Action Requirements	10
5.3.4 Cleanup Action Expectations	10
5.3.5 Applicable, Relevant, and Appropriate, and Local Requirements	11
5.4 EVALUATION OF CLEANUP ACTION ALTERNATIVES	12
5.4.1 Threshold Requirements.....	12
5.4.1.1 <i>Protection of Human Health and the Environment</i>	12
5.4.1.2 <i>Compliance with Cleanup Standards</i>	12
5.4.1.3 <i>Compliance with State and Federal Laws</i>	12
5.4.1.4 <i>Provision for Compliance Monitoring</i>	12
5.4.2 Other Requirements.....	12
5.4.2.1 <i>Use of Permanent Solutions to the Maximum Extent Practicable</i>	12
5.4.2.2 <i>Provide a Reasonable Restoration Time Frame</i>	14

5.4.3	Groundwater Cleanup Action Requirements	15
5.4.4	Cleanup Action Expectations	15
5.5	DECISION	16
6.0	SELECTED REMEDIAL ACTION	16
6.1	INSTITUTIONAL CONTROLS	16
6.2	COMPLIANCE MONITORING	17
6.3	PERIODIC REVIEW	17
7.0	REFERENCES CITED	18

LIST OF FIGURES

1. PROPERTY LOCATION
2. SITE FEATURES
3. SOIL SAMPLE LOCATIONS AND EXCEEDANCES
4. GROUNDWATER AND SURFACE WATER SAMPLE LOCATIONS AND EXCEEDANCES
5. SEDIMENT SAMPLE LOCATIONS AND EXCEEDANCES
6. REMEDIATION BOUNDARIES

LIST OF TABLES

1. SUMMARY OF CLEANUP LEVELS

1.0 INTRODUCTION

This report presents the Washington State Department of Ecology's (Ecology) proposed cleanup action for the Hambleton Bros Log Yard (Facility Site No. 4399598), located at 335 South A Street, Washougal, in Clark County, Washington (the Property) (see Figure 1). The approximate 13 acre Site, where contamination above cleanup levels (CULs) is present, lies within the approximate 25 acre Property boundary. This Cleanup Action Plan (CAP) is required as part of the Site cleanup process under the Model Toxics Control Act (MTCA), Ch. 70.105D Revised Code of Washington (RCW), implemented by Ecology. The cleanup action decision is based on the Focused Site Assessment Report (Maul Foster & Alongi, Inc. [MFA], 2012), Terrestrial Ecological Evaluation (MFA, 2013), and other historical investigation results.

This CAP outlines the following:

- The history of operations, ownership, and activities at the Site;
- The nature and extent of contamination;
- Cleanup levels (CULs) for the Site that are protective of human health and the environment;
- The selected remedial action for the Site; and
- Any compliance monitoring and institutional control requirements.

1.1 DECLARATION

Ecology has selected this remedy because it will be protective of human health and the environment. The selected remedy is consistent with the State of Washington's preference for permanent solutions to the maximum extent practicable and provides for adequate action to ensure effectiveness of the remedial action as stated in RCW 70.105D.030(1)(b).

1.2 APPLICABILITY

CULs specified in this CAP are applicable only to the Site. They were developed as a part of an overall remediation process under Ecology oversight using the authority of MTCA, and should not be considered as precedents for other sites.

1.3 ADMINISTRATIVE RECORD

The documents used to make the decisions discussed in this CAP are on file in the administrative record for the Site. Major documents are listed in the reference section. The entire administrative record for the Site is available for public review by appointment at Ecology's Southwest Regional Office, located at 300 Desmond Drive, Lacey, WA 98503-1274. The Focused Site Assessment Report (MFA, 2012) captures the most recent understanding of the Site and summarizes the results of earlier environmental investigations conducted at the Site.

1.4 CLEANUP PROCESS

Cleanup conducted under the MTCA process requires the preparation of specific documents either by the Potentially Liable Party (PLP) or by Ecology. These procedural tasks and resulting documents, along with the MTCA section that requires their completion, are listed below, with a brief description of each task.

- Remedial Investigation and Feasibility Study (RI/FS)—Washington Administrative Code (WAC) 173-340-350
The RI/FS documents the investigations and evaluations conducted at the Site from the discovery phase to the RI/FS report. The RI collects and presents information on the nature and extent of contamination, and the risks posed by the contamination. The FS presents and evaluates site cleanup alternatives and proposes a preferred cleanup alternative. The document is prepared by the PLP, is approved by Ecology, and undergoes public comment.
- CAP—WAC 173-340-380
The CAP sets CULs and standards for the Site and selects the cleanup actions intended to achieve the CULs. The document is prepared by Ecology and undergoes public comment.
- Engineering Design Report, Construction Plans and Specifications—WAC 173-340-400
The report outlines details of the selected cleanup action, including any engineered systems and design components from the CAP. These may include construction plans and specifications with technical drawings. The document is prepared by the PLP and approved by Ecology. Public comment is optional.
- Operation and Maintenance Plan(s)—WAC 173-340-400
These plans summarize the requirements for inspection and maintenance of cleanup actions, including any actions required for operation and maintenance of equipment, structures, or other remedial systems. The document is prepared by the PLP and approved by Ecology.
- Cleanup Action Report—WAC 173-340-400
The Cleanup Action Report is completed following implementation of the cleanup action, and provides details on the cleanup activities along with documentation of adherence to or variance from the CAP. The document is prepared by the PLP and approved by Ecology.
- Compliance Monitoring Plan—WAC 173-340-410
Compliance Monitoring Plans provide details on the completion of monitoring activities required to ensure that the cleanup action is performing as intended. It is prepared by the PLP and approved by Ecology.

2.0 SITE CONDITIONS

2.1 PROPERTY DESCRIPTION AND HISTORY

The Property is currently zoned as Highway Commercial (CH). The Property is located in sections 12 and 13 of township 1 north and range 3 east, and section 7 of township 1 north and range 3 east of the Willamette Meridian (see Figure 1). The Property is approximately 1,000 feet long (north-south) and 1,600 feet wide (east-west). The Property is bordered by State Route 14 to the north and South 2nd Street to the west, with an undeveloped vacant lot to the east. The Columbia River borders the Property to the south. Adjoining properties to the west of 2nd Street

are a commercial hotel and a vacant building slated for commercial use. Properties located north of State Route 14 are in mixed commercial, residential, and light industrial use.

The Property was occupied by a lumber mill between approximately 1948 and 2010. The lumber mill operations expanded over the years to occupy most of the Property. The Hambleton Lumber Company originally leased the land from the Port of Camas-Washougal in 1953 and eventually bought the Property in the 1970s. The company operated in a niche market, with approximately 75 percent of the mill production in large-dimension green Douglas fir, hemlock, and spruce timbers. Historically, the Property was used as a lumber mill; activities included log storage, sawmill, planer, lumber storage and shipping, and other operations ancillary to mill operations.

At one time, the Property contained an equipment mechanical shop, a chemical storage shed, a single-family residence, a mill, a debarker, and a planer building. Wood-treating activities were not conducted on the Property. The debarker burned to the ground in 2009. Because of poor economic conditions, the mill closed in 2010. All structures have been removed from the Property.

There have been no structures on the Property since demolition of the lumber mill, shop, office, chemical storage shed, and planer building (see Figure 2). Demolition of these structures was generally completed in November 2011. Concrete foundations from the demolished structures remain. The Property is surfaced with asphalt and gravel; however, areas of the Property are covered in woody debris from log storage.

2.1.1 Topography and Climate

The Property is generally flat, with a slight slope to the south, toward the Columbia River. The Columbia River is at the Property's southern boundary, at the bottom of an approximately 32-foot downward slope.

According to gauges in Washougal, rainfall averages 51 inches annually, with average summer temperatures in the mid-70s (degrees Fahrenheit) and average winter temperatures in the mid-30s (degrees Fahrenheit) (WRCC, 2013).

2.1.2 Geology and Hydrogeology

The Property is located on Quaternary alluvial deposits composed of coarse-grained outwash deposits (gravel, cobbles, boulders) from the Missoula Floods. These deposits were on boring and test pit logs at depths of up to 45 feet below ground surface (bgs) (CEC, 2009). The boring logs also indicated that local fill deposits of up to 6 feet bgs were observed throughout the Property. These fill deposits were at times intermixed with the local material. The depth to groundwater occurs between approximately 20 and 37 feet bgs, and groundwater flows toward and is assumed to discharge to the Columbia River.

3.0 ENVIRONMENTAL CONDITIONS

Site investigations and interim actions have taken place on the Property since 2002. In 2011 a Focused Site Assessment conducted to assess the nature and extent of contamination in soil, sediment, and/or groundwater identified petroleum hydrocarbons (diesel- and residual-range

organics), metals (lead and mercury), polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs; i.e., methylene chloride), and/or carcinogenic polycyclic aromatic hydrocarbons (cPAHs) as indicator hazardous substances (IHSs) on the Site. The nature and extent of contamination are summarized below; the Focused Site Assessment report (MFA, 2012) provides additional details.

3.1 SOIL

Soil concentrations were compared with MTCA Method A CULs. Detected chemicals that do not have MTCA Method A CULs were compared to MTCA Method B CULs. Also natural background concentrations were used for comparison when the background value exceeded the MTCA CULs (i.e., chromium). This evaluation indicated that most of the Property was not impacted above CULs or background concentrations except for the log pond and mill area, the aggregate recycling area, and a soil stockpile (located in the aggregate recycling area) (see Figure 3). Petroleum hydrocarbons, metals (i.e., arsenic, lead, and mercury), cPAHs, and PCBs were detected above CULs in soil samples and are considered IHSs. Figure 3 shows the sample locations and which compounds exceeded CULs or background concentrations and at what locations.

Surface soil (approximately the top 2 feet) around the log pond and mill area shows exceedances of the above-mentioned IHSs. The soil impacts in the aggregate recycling area were detected at up to 4 feet bgs; however, because the vertical extent was not delineated, it is assumed that the impacts could extend to the depth of the fill in that area (approximately 7 feet bgs).

3.2 GROUNDWATER

Petroleum hydrocarbons and arsenic were the only chemicals/metal with concentrations above the Method A CUL. Petroleum hydrocarbons exceeded the CUL in only one of seven wells, i.e., MW-7 (see Figure 4).

Total arsenic was detected in MW-7 at 5.56 micrograms per liter ($\mu\text{g/L}$), which is slightly above the CUL of 5 $\mu\text{g/L}$. The sample was also analyzed for dissolved arsenic because the sample had high turbidity. Dissolved arsenic was detected at 4.15 $\mu\text{g/L}$, below the CUL. The discrepancy between the total and dissolved arsenic concentrations appears to be due to the elevated turbidity in the sample. The arsenic concentration in MW-7 appears to be the result natural background conditions and, as such, is not considered an IHS for groundwater.

3.3 SURFACE WATER

Historical samples collected in 2006 indicated that IHSs could be present in log pond surface water at concentrations above CULs. The surface water samples contained detectable metals, petroleum hydrocarbons, volatile organic compounds (VOCs), and polycyclic aromatic hydrocarbons. As remedial actions are conducted the surface water will be removed and characterized for disposal.

3.4 SEDIMENT

Historically, two sediment samples were collected in the log pond. VOCs (i.e., methylene chloride) and petroleum hydrocarbon concentrations exceeded the MTCA Method A soil CULs (see Figure 5). The sampling indicated that impacts extended approximately 4 feet below the mud line in the log pond.

Four sediment samples collected from the Columbia River (see Figure 5) were compared to Ecology 2010 Freshwater Criteria. The samples were compared primarily to the Sediment Quality Standards and the Cleanup Screening Level Standard. If no values were available, the data were compared to the Ecology 2003 Freshwater Criteria lowest and second lowest apparent effects threshold (i.e., LAET and 2LAET, respectively). No sediment detections exceeded screening levels. Note that one of the sediment samples was collected just beyond the outfall for the Property.

4.0 CLEANUP STANDARDS

MTCA requires the establishment of cleanup standards for individual sites. The two primary components of cleanup standards are CULs and points of compliance (POCs). CULs determine the concentration at which a substance does not pose unacceptable risks to human health or the environment. All materials that exceed CULs are addressed through a remedy that prevents exposure to the material. POCs represent the locations on a site where CULs must be met.

4.1 TERRESTRIAL ECOLOGICAL EVALUATION

WAC 173-340-7490 requires that sites conduct a terrestrial ecological evaluation (TEE) to determine the potential effects of soil contamination on ecological receptors. The Site does not meet any of the exclusionary criteria. The Site also does not meet criteria for a simplified TEE. Therefore, the Site was evaluated using a site-specific TEE process.

Problem formulation involves:

- Selecting chemicals of ecological concern;
- Identifying complete exposure pathways; and
- Identifying current or potential future terrestrial ecological receptors of concern.

Chemicals detected in site soils (listed in the attached table) were compared to values in MTCA Table 749-3. Since the Site is a commercial property, only risks to wildlife need to be considered. Those chemicals detected at the Site and having wildlife ecological soil criteria were carried forward.

The evaluation of exposure pathways involves determining future site uses. Since the Site is under a brownfields planning grant, the expectation of site redevelopment is high. Plans currently call for a complete build-out of the Site, covering most site soils with buildings, maintained open space, or pavement. Therefore, where some areas of the Site would not have buildings or pavement, this condition would not be met. Exposure pathways would be through direct contact and ingestion by wildlife. These wildlife receptors would likely be ground-

dwelling wildlife along the river corridor. The TEE (MFA, 2013) concluded that the remedial action proposed for human health will also be protective of ecological receptors on the Site.

4.2 SITE CLEANUP LEVELS

The Focused Site Assessment and previous investigations have documented the presence of contamination in soil and groundwater at the Site. CULs will be developed for both of these media.

The Site is impacted mainly with petroleum hydrocarbons and their constituents. The impacts appear to be limited in extent. Therefore, Method A CULs for unrestricted land use are applied to soil and groundwater as the CULs for the Site (see Table 1). These CULs are calculated using reasonable maximum human health exposure assumptions with target risk levels set at the MTCA acceptable risk level.

4.3 POINT OF COMPLIANCE

The MTCA Cleanup Regulation defines the POC as the point or points where CULs shall be attained. Once CULs are met at the POC, a site is no longer considered a threat to human health or the environment.

WAC 173-340-740(6) gives the POC requirements for soil. For sites where CULs are based on the protection of groundwater, the POC is established in all soil throughout the site.

The soil POC is the depth bgs at which soil CULs shall be attained. The standard POC for Method A is soil within 15 feet of the ground surface throughout the entire site. This standard POC is applied to soil on the Property. As discussed below, impacts have been detected in surface soil to approximately 4 feet bgs.

The POC for groundwater is the entire water-bearing zone at the Site (WAC 173-340-720(8)(b)). A conditional POC may be established if it is not practicable to meet the CUL throughout the Site within a reasonable restoration time frame (WAC 173-340-720(8)(c)). The conditional POC for groundwater is located in MW-7 at the top of the bank, downgradient of the log pond, along the boundary with the Columbia River.

5.0 CLEANUP ACTION SELECTION

5.1 REMEDIAL ACTION OBJECTIVES

The remedial action objectives describe the actions necessary to protect human health and the environment through eliminating, reducing, or otherwise controlling risks posed through each exposure pathway and migration route. These objectives are developed by evaluating the characteristics of the contaminated media, the characteristics of the hazardous substances present, migration and exposure pathways, and potential receptor points.

Soil and groundwater have been contaminated as a result of past activities at the Site. People are typically exposed to contaminated soil via dermal contact, inhalation of soil particles, or incidental ingestion of soil; or to groundwater by direct contact or ingestion. Potential receptors

(i.e., those with potentially complete human health exposure pathways) include on-site commercial workers, on-site construction workers, and on-site recreationists.

The following remedial action objectives are intended to address these remaining risks:

- Prevent or minimize direct contact, inhalation, or ingestion of contaminated soil by humans or ecological receptors;
- Prevent or minimize direct contact or ingestion of contaminated groundwater by humans or ecological receptors.

5.2 CLEANUP ACTION ALTERNATIVES

Cleanup alternatives are evaluated as part of the Focused Site Assessment. The Focused Site Assessment included the evaluation of two options for soil and groundwater cleanup. The alternatives were scored and ranked using relevant criteria as described in WAC 173-340-360. Each of the considered alternatives includes one or more of the following remedial actions:

- Soil removal
- Surface water removal (from the former log pond)
- Engineered cap
- Institutional controls / restrictive covenant—including site management plan provisions

These remedial action options were combined to develop two alternatives, each intended to address all contaminated media at the Site. The following alternatives have been developed by Ecology, based on the alternatives proposed in the Focused Site Assessment prepared by MFA:

5.2.1 Alternative 1: Excavation and off-site disposal of contaminated soil and log pond sediment

This alternative is more conservative and more costly, and consists of the following elements:

- Remove (i.e., pump out) log pond liquid, characterize, and dispose of off site at a permitted disposal facility. For cost estimating purposes, the volume of liquid in the log pond is estimated to be approximately 330,000 gallons (the actual volume will vary, depending on the season and amount of precipitation occurring during the remedial action).
- Excavate impacted log pond sediment to 4 feet bgs (3,300 cubic yards), characterize, and dispose of off site at a permitted disposal facility. For cost estimating purposes and based on the sediment samples collected during the 2009 site investigation, the sediment is assumed to be nonhazardous and not special-listed waste, and disposal at a Subtitle D landfill is also assumed. Backfill log pond with clean, imported fill to existing ground surface and compact to 92 percent, based on the Modified Proctor Test (ASTM D-1557).
- Demolish concrete slab in mill area to facilitate excavation of underlying impacted soil. The slab is assumed to be reinforced and 12 inches thick. Excavate impacted soil to 2 feet bgs (930 cubic yards) and screen on site. The oversize, inert debris and rocks will be placed back in the excavation, while the material that passes through the screen will be characterized and

disposed of off site at a permitted disposal facility. For cost estimating purposes, 10 percent of the excavated material is assumed to be oversize and suitable for placement in the bottom of the remedial excavation. Based on soil samples collected, the soil is assumed to be nonhazardous and not special-listed waste, and disposal at a Subtitle D landfill is also assumed.

- Screen the impacted material stockpiled in the aggregate recycling area (approximately 500 cubic yards). The oversize, inert debris and rocks will be placed back in the excavation, while the material that passes through the screen will be characterized and disposed of off site at a permitted disposal facility. For cost estimating purposes, 10 percent of the excavated material is assumed to be oversize and suitable for placement in the bottom of the remedial excavation. Based on soil samples collected during the site investigation, the soil is assumed to be nonhazardous and not special-listed waste and may be disposed of at a Subtitle D Landfill.
- Excavate impacted soil to 7 feet bgs (4,870 cubic yards) and screen on site. The oversize, inert debris and rocks will be placed back in the excavation, while the material that passes through the screen will be characterized and disposed of off site at a permitted disposal facility. For cost estimating purposes, 10 percent of the excavated material is assumed to be oversize and suitable for placement in the bottom of the remedial excavation. Based on soil samples collected during the site investigation, the soil is assumed to be nonhazardous and not special-listed waste, and disposal at a Subtitle D landfill is also assumed.
- Employ a restrictive covenant prohibiting the use of groundwater beneath the Property as potable water.
- Groundwater monitoring at MW-7 on an 18-month schedule until groundwater CULs are achieved.

5.2.2 Alternative 2: Capping and institutional controls

This alternative is less costly than Alternative 1 and focuses on on-site soil management and capping. This alternative includes the following actions:

- Remove (i.e., pump out) log pond liquid, characterize, and dispose of off site at a permitted disposal facility. For cost estimating purposes, the volume of liquid in the log pond is estimated to be approximately 330,000 gallons (the actual volume will vary, depending on the season and the amount of precipitation occurring during the remedial action).
- Prior to consolidation of soil in the log pond, sediment samples will be collected and analyzed for methylene chloride which was historically detected above MTCA Method A CUL.
- Consolidate the impacted material stockpiled on site (500 cubic yards) in the log pond and backfill the log pond with unimpacted material stockpiled on site (2,840 cubic yards) and imported backfill (3,180 cubic yards).
- Place a soil cap over the log pond and mill area and aggregate recycling area with a minimum of 2 feet of clean, imported backfill. Soil cap would include a geotextile demarcation layer and placement of 4,340 cubic yards of clean soil.

- Implement institutional controls regarding future use of the Site through a restrictive covenant. A soil management and cap maintenance plan would be developed to outline procedures for maintaining the cap and handling impacted soils during potential future excavation. Employ a restrictive covenant prohibiting the use of groundwater beneath the Site as potable water. In addition, if methylene chloride is detected above MTCA Method A CULs then an institutional control will be required for any structure built over the log pond.
- Groundwater monitoring at MW-7 on an 18-month schedule until groundwater CULs are achieved.

5.3 REGULATORY REQUIREMENTS

The MTCA Cleanup Regulation sets forth the minimum requirements and procedures for selecting a cleanup action. A cleanup action must meet each of the minimum requirements specified in WAC 173-340-360(2), including certain threshold and other requirements. These requirements are outlined below.

5.3.1 Threshold Requirements

WAC 173-340-360(2)(a) requires that the cleanup action to:

- Protect human health and the environment;
- Comply with cleanup standards;
- Comply with applicable state and federal laws; and
- Provide for compliance monitoring.

5.3.2 Other Requirements

In addition, WAC 173-340-360(2)(b) states that the cleanup action shall:

- Use permanent solutions to the maximum extent practicable;
- Provide for a reasonable restoration time frame; and
- Consider public concerns.

WAC 173-340-360(3) describes the specific requirements and procedures for determining whether a cleanup action uses permanent solutions to the maximum extent practicable. A permanent solution is defined as one in which CULs can be met without further action being required at the Site other than the disposal of residue from the treatment of hazardous substances. To determine whether a cleanup action uses permanent solutions to the maximum extent practicable, a disproportionate cost analysis is conducted. This analysis compares the costs and benefits of the cleanup action alternatives and involves the consideration of several factors, including:

- Protectiveness;
- Permanent reduction of toxicity, mobility and volume;

- Cost;
- Long-term effectiveness;
- Short-term risk;
- Implementability; and
- Consideration of public concerns.

The comparison of benefits and costs may be quantitative, but will often be qualitative and require the use of best professional judgment.

WAC 173-340-360(4) describes the specific requirements and procedures for determining whether a cleanup action provides for a reasonable restoration time frame.

5.3.3 Groundwater Cleanup Action Requirements

At sites with contaminated groundwater, WAC 173-340-360(2)(c) requires that the cleanup action meet certain additional requirements. Permanent cleanup actions shall be completed when possible, and the regulation requires that the following two requirements be met if a nonpermanent action must be used:

- 1) Treatment or removal of the source of the release shall be conducted for liquid wastes, areas of high contamination, areas of highly mobile contaminants, or substances that cannot be reliably contained; and
- 2) Groundwater containment (such as barriers) or control (such as pumping) shall be implemented to the maximum extent practicable.

5.3.4 Cleanup Action Expectations

WAC 173-340-370 sets forth the following expectations for the development of cleanup action alternatives and the selection of cleanup actions. These expectations represent the types of cleanup actions Ecology considers likely results of the remedy selection process; however, Ecology recognizes that there may be some sites where cleanup actions conforming to these expectations are not appropriate.

- Treatment technologies will be emphasized at sites with liquid wastes and in areas with high concentrations of hazardous substances or with highly mobile and/or highly treatable contaminants;
- To minimize the need for long-term management of contaminated materials, hazardous substances will be destroyed, detoxified, and/or removed to concentrations below CULs throughout sites with small volumes of hazardous substances;
- Engineering controls, such as containment, may be necessary at sites with large volumes of materials with relatively low levels of hazardous substances and where treatment is impracticable;

- To minimize the potential for migration of hazardous substances, active measures will be taken to prevent precipitation and runoff from coming into contact with contaminated soil or waste materials;
- When hazardous substances remain on site at concentrations that exceed CULs, they will be consolidated to the maximum extent practicable to minimize the potential for direct contact and migration of hazardous substances;
- For sites adjacent to surface water, active measures will be taken to prevent/minimize releases to that water; dilution will not be the sole method for achieving compliance;
- Natural attenuation of hazardous substances may be appropriate at sites where 1) source control is conducted to the maximum extent practicable, 2) leaving contaminants on site does not pose an unacceptable risk, 3) there is evidence that natural degradation is occurring and will continue to occur, and 4) appropriate monitoring is taking place; and
- Cleanup actions will not result in a significantly greater overall threat to human health and the environment than other alternatives.

5.3.5 Applicable, Relevant, and Appropriate, and Local Requirements

WAC 173-340-710(1) requires that all cleanup actions comply with all applicable state and federal law. It further states that the term “applicable state and federal laws” shall include legally applicable requirements and those that the department determines “...are relevant and appropriate requirements.” This section discusses applicable state and federal law, relevant and appropriate requirements, and local permitting requirements that were considered of primary importance in selecting cleanup requirements for the Site. If other requirements are identified at a later date, they will be applied to the cleanup actions at that time.

MTCA provides an exemption from the procedural requirements of several state laws and from any laws authorizing local government permits or approvals for remedial actions conducted under a consent decree, order, or agreed order (RCW 70.105D.090) However, the substantive requirements of a required permit must be met. The procedural requirements of the following state laws are exempted:

- Ch. 70.94 RCW, Washington Clean Air Act;
- Ch. 70.95 RCW, Solid Waste Management, Reduction, and Recycling;
- Ch. 70.105 RCW, Hazardous Waste Management;
- Ch. 77.55 RCW, Construction Projects in State Waters;
- Ch. 90.48 RCW, Water Pollution Control; and
- Ch. 90.58 RCW, Shoreline Management Act of 1971.

WAC 173-340-710(4) sets forth the criteria that Ecology evaluates when determining whether certain requirements are relevant and appropriate for a cleanup action. Local laws, which may be more stringent than specified state and federal laws, will govern where applicable.

5.4 EVALUATION OF CLEANUP ACTION ALTERNATIVES

The requirements and criteria outlined in Section 5.3 are used to conduct a comparative evaluation of the alternatives and to select a cleanup action from those alternatives.

5.4.1 Threshold Requirements

5.4.1.1 Protection of Human Health and the Environment

Both alternatives 1 and 2 reduce or eliminate risk due to contaminated soil through removal or capping and therefore would eliminate exposure pathways, protect human health and the environment.

5.4.1.2 Compliance with Cleanup Standards

Alternatives 1 and 2 would both meet cleanup standards in soil and groundwater, taking approximately the same amount of time to reach compliance.

5.4.1.3 Compliance with State and Federal Laws

The selected CULs are consistent with MTCA. In addition, local, state and federal laws related to environmental protection, health and safety, transportation, and disposal would apply to each proposed alternative. During remedial design, the selected alternative would be designed to comply with applicable, relevant, and appropriate requirements.

5.4.1.4 Provision for Compliance Monitoring

There are three types of compliance monitoring: protection, performance, and confirmational. Protection monitoring is designed to protect human health and the environment during the construction and operation and maintenance phases of the cleanup action. Performance monitoring confirms that the cleanup action has met cleanup and/or performance standards. Confirmational monitoring confirms the long-term effectiveness of the cleanup action once cleanup standards have been met or other performance standards have been attained. Both cleanup alternatives would meet this provision, as both would require varying levels of all three types of compliance monitoring.

Compliance monitoring will include cap monitoring per a forthcoming Soil Management and Cap Maintenance Plan which will be completed after the remedy is implemented. In addition, groundwater monitoring will be conducted at monitoring well MW-7 for petroleum hydrocarbons (i.e., NWTPH-Dx) on an 18 month monitoring schedule alternating low and high water events until groundwater CULs are achieved.

5.4.2 Other Requirements

5.4.2.1 Use of Permanent Solutions to the Maximum Extent Practicable

MTCA states that when selecting a cleanup alternative, preference shall be given to “permanent solutions to the maximum extent practicable.” “Permanent” is defined in WAC 173-340-200 as a

cleanup action in which the cleanup standards of WAC 173-340-700 through 760 are met without further action being required at the site being cleaned up or at any other site involved with the cleanup action, other than the approved disposal of any residue from the treatment of hazardous substances.

In order to determine the “maximum extent practicable” for each alternative, a disproportionate-cost analysis outlined in WAC 173-340-360(3)(e) is used. Costs are determined to be disproportionate to benefits if the incremental cost of a more expensive alternative over that of a lower-cost alternative exceeds the incremental degree of benefits achieved by the more expensive alternative. As outlined in WAC 173-340-360(3)(f), the evaluation criteria used were a mix of qualitative and quantitative factors, including protectiveness, permanence, cost effectiveness over the long term, management of short-term risks, technical and administrative implementability, and consideration of public concerns.

The cleanup alternatives are evaluated by the criteria below.

- **Protectiveness**

Protectiveness is a factor by which human health and the environment are protected by the cleanup action, including the degree to which existing risks are reduced; time required to reduce risk at the facility and attain cleanup standards; on-site and off-site risks resulting from implementing the cleanup action alternative; and improvement of the overall environmental quality. Alternatives 1 and 2 are equally protective because human and ecological exposure to all soil exceeding CULs are either removed from the Site or capped in place with clean material.

- **Permanent Reduction of Toxicity, Mobility and Volume**

Permanence is a factor by which the cleanup action alternative permanently reduces the toxicity, mobility, or volume of hazardous substances. It takes into account the adequacy of the alternative in destroying the hazardous substances, the reduction or elimination of hazardous substance releases and sources of releases, the degree of irreversibility of the waste-treatment process, and the characteristics and quantity of treatment residuals generated. Removal of soil would be considered the most permanent soil action because it permanently eliminates the source of releases at the Site. Alternatives that include less soil removal would be equivalently less permanent because they would rely on institutional controls, which could be violated or removed from the Site in the future. Therefore, Alternative 1 would be ranked higher for permanence than Alternative 2.

- **Cleanup Costs**

Costs are approximated based on specific design assumptions for each alternative. Although the costs provided by consultants are estimates based on design assumptions that might change, the relative costs can be used for this evaluation. For a detailed description of the costs involved with each alternative, please refer to the Focused Site Assessment.

Both alternatives include the costs of groundwater monitoring, laboratory services, construction oversight, monitoring well installation, and reporting. Major costs for alternatives include soil excavation; transport and disposal; and log pond liquid removal, transport and disposal. The cost

estimate for Alternative 1 (soil excavation) is \$1,436,010, and for Alternative 2 (on-site capping) the cost is estimated at \$439,030. The cost for Alternative 1 is more than three times the cost of Alternative 2.

- Long-Term Effectiveness

Long-term effectiveness includes the degree of certainty that the alternative will be successful; the reliability of the alternative for as long as hazardous substances are expected to remain on site at concentrations that exceed CULs; the magnitude of residual risk with the alternative in place; and the effectiveness of controls required to manage treatment residues or remaining wastes. Alternative 1 removes all contaminated soil, its long-term effectiveness is slightly higher than that of Alternative 2.

- Short-Term Risk

Short-term risks to remediation workers, the public, and the environment are assessed under this criterion. Generally, short-term risks are expected to be linearly related to the amount of material handled, treated, and/or transported and disposed of (e.g., worker injury per cubic yard excavated [equipment failure], public exposure per cubic yard-mile transported [highway accident]).

This factor addresses the risk to human health and the environment associated with the alternative during construction and implementation, and the effectiveness of measures that will be taken to manage such risks. Potential public exposure during transport, handling, and excavation required for both of the alternatives could lead to short-term risks. Because Alternative 2 requires less off-site transportation and handling of impacted soil and thus involves lower short-term risks, it is ranked higher than Alternative 1.

- Implementability

This factor addresses whether the alternative can be implemented and is technically possible. The availability of necessary materials, regulatory requirements, scheduling, access for construction operations and monitoring, and integration with existing and neighboring site uses must be considered. The proposed alternatives are both well proven and have been employed at many sites throughout the United States; both are readily implementable and rank equivalently.

- Consider Public Concerns

This factor includes considering concerns from individuals as well as community groups, local governments, tribes, federal and state agencies, and any other organization that may have an interest in or knowledge of the Site and that may have a preferred alternative. Public hearings to review cleanup and development alternatives will be held later in the process. Both alternatives would provide opportunity for members of the public to review and comment on plans.

5.4.2.2 *Provide a Reasonable Restoration Time Frame*

WAC 173-340-360(4) describes the specific requirements and procedures for determining whether a cleanup action provides for a reasonable restoration time frame, as required under

subsection (2)(b)(ii). The factors that determine whether a cleanup action provides a reasonable restoration time frame are set forth in WAC 173-340-360(4)(b) and include:

- Potential risks posed by the Site to human health and the environment;
- Practicability of achieving a shorter restoration time frame;
- Current site use and nearby resources that are or may be affected by the Site;
- Potential future use of the Site and of nearby resources that are or may be affected by the Site;
- Availability of alternative water supplies;
- Likely effectiveness and reliability of institutional controls;
- Ability to monitor and control migration of hazardous substances;
- Toxicity of hazardous substances; and
- Natural processes, documented on the Site, that reduce contaminant concentrations.

Alternatives that rely on soil removal to CULs would provide the greatest flexibility for current and future site use and the greatest reduction in risk, and would not rely on institutional controls. Alternatives that leave contaminants in soil above the CULs would rely on institutional controls, would have residual risk, and would increase the restoration time frame by leaving in place a potential ongoing source of groundwater contamination. Alternative 1 is ranked higher than Alternative 2, since Alternative 1 removes all contaminated soil, leading to restoration in a shorter time frame.

5.4.3 Groundwater Cleanup Action Requirements

Both alternatives rely on institutional controls to address the slight groundwater impacts, and therefore both alternatives score equally.

5.4.4 Cleanup Action Expectations

Specific expectations of cleanup actions are outlined in WAC 173-340-370 and are described in Section 5.3.4. Alternatives 1 and 2 address these expectations as follows:

- Each of the alternatives includes source control measures through the targeted removal of log pond liquid. Each also includes a restrictive covenant provisioning the use of groundwater beneath the Site.
- Alternative 1 would minimize the need for long-term management because contaminated soils would be removed rather than managed on site.
- Alternative 2 includes an engineered control that consolidates the impacted soils and the installation of an engineered permeable cap. Institutional controls will require the integrity of the cap be maintained to prevent contact with impacted soils.

- Both alternatives would eliminate surface water contacting and creating impacted runoff.
- Natural attenuation is appropriate as a groundwater remedy because source control will be a part of both alternatives; leaving contaminants on site will not pose an unacceptable risk, as exposure will be mitigated and petroleum-related groundwater impacts are expected to degrade naturally.

5.5 DECISION

Based on the analysis described above, Alternative 2 has been selected as the proposed remedial action for the Site. Alternative 2 meets each of the threshold requirements and uses permanent solutions to the maximum extent practicable relative to the cost of implementation. Figure 6 shows the remediation areas applicable to Alternative 2.

6.0 SELECTED REMEDIAL ACTION

The proposed cleanup action for the Site includes the removal of log pond liquid for characterization, and hauling and disposal at a permitted disposal facility. Impacted material stockpiled on site (500 cubic yards) will be consolidated in the log pond, and then the log pond will be backfilled with a combination of imported backfill and unimpacted material stockpiled on the Property. The filled log pond and mill area and the aggregate recycling area will be capped with a minimum of 2 feet of clean, imported backfill. The soil cap will include a geotextile demarcation layer.

Institutional controls regarding future use of the Site will be implemented. A soil management and cap maintenance plan will be developed to outline procedures for maintaining the cap and handling impacted soils during potential future subsurface earth work. Groundwater contamination will be addressed through the employment of a restrictive covenant prohibiting the use of groundwater beneath the Site as potable water.

6.1 INSTITUTIONAL CONTROLS

Institutional controls are measures undertaken to limit or prohibit activities that may interfere with the integrity of a cleanup action or result in exposure to hazardous substances at a site. Such measures are required to ensure both the continued protection of human health and the environment and the integrity of the cleanup action whenever hazardous substances remain at the site at concentrations exceeding applicable CULs. Institutional controls can include both physical measures and legal and administrative mechanisms. WAC 173-340-440 provides information on institutional controls and the conditions under which they may be removed.

Institutional controls will be included in the cleanup action to restrict activities that will come into contact with soil and to prevent the withdrawal and use of groundwater. A Soil Management and Cap Maintenance Plan will provide specific guidance on future use, management, and handling of soils remaining on the Site.

In addition, if methylene chloride is detected in log pond sediments then vapor mitigation or vapor assessment will be required if buildings are to be constructed over the historical log pond.

6.2 COMPLIANCE MONITORING

Groundwater monitoring will be conducted at MW-7 for petroleum hydrocarbons on an 18 month schedule until groundwater CULs are achieved. Groundwater monitoring will be discontinued upon Ecology approval.

6.3 PERIODIC REVIEW

WAC 173-340-420 states that, as long as groundwater CULs have not been achieved at sites where a cleanup action requires institutional control(s), a periodic review shall be completed no less frequently than every five years after the initiation of a cleanup action. In addition, periodic reviews are required at sites that rely on institutional controls as part of the cleanup action. Periodic reviews will be required at the Site. Periodic reviews will still be required after groundwater CULs have been achieved because soil institutional controls are a part of the remedy.

7.0 REFERENCES CITED

CEC and Erven. 2009. DRAFT Initial Independent Cleanup Report and Risk Assessment. Prepared for Hambleton Lumber Company. Prepared by Certified Environmental Consultants, Inc., Vancouver, Washington, and Evren Northwest, Inc., Portland Oregon. October 16.

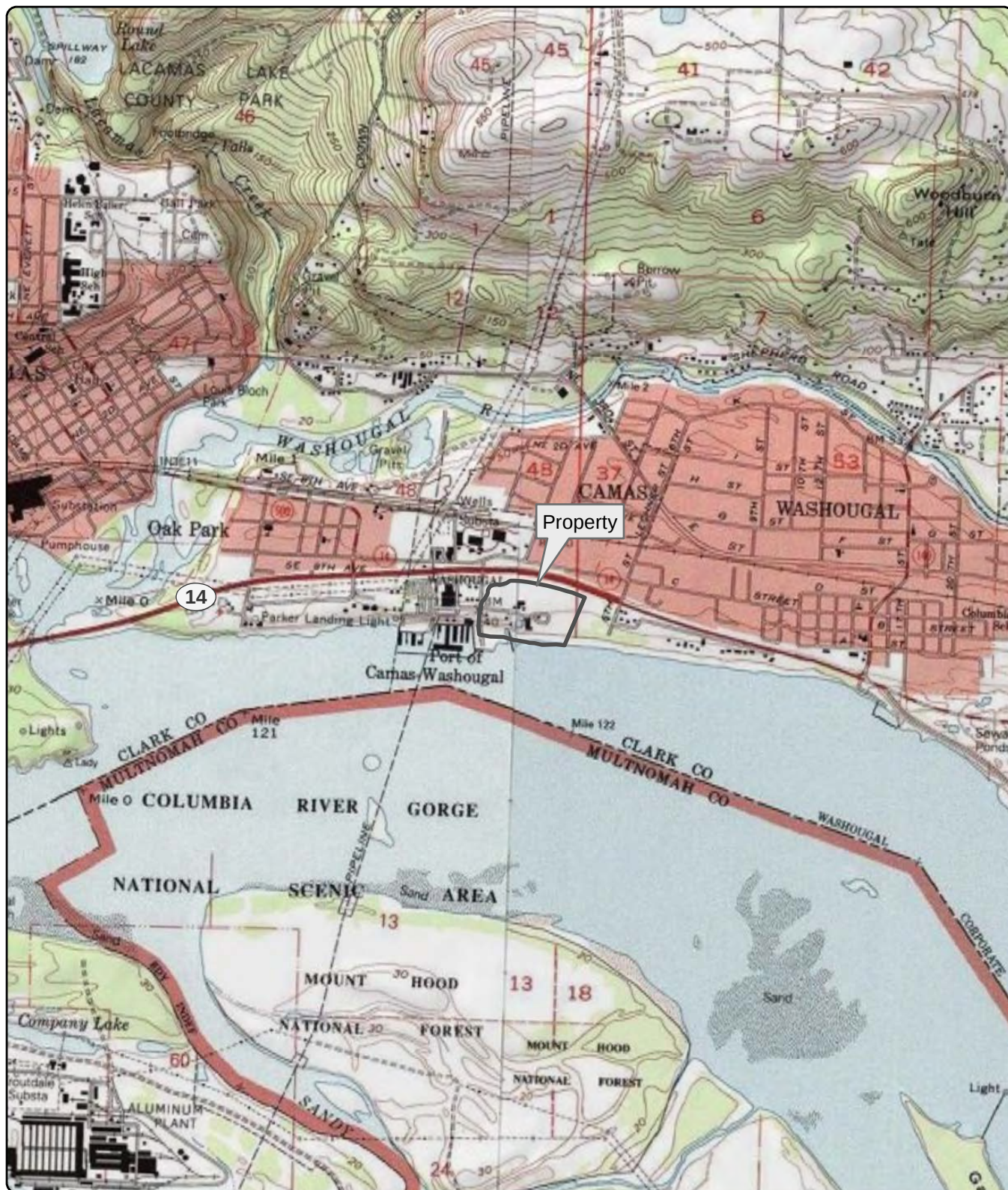
MFA. 2012. Focused site assessment report. Prepared for the Port of Camas-Washougal. Maul Foster & Alongi, Inc., Vancouver, Washington. January 16.

MFA. 2013. Letter (re terrestrial ecological evaluation for the former Hambleton Lumber Mill, Washougal, Washington) to G. Barrett, Washington State Department of Ecology, from M. Novak and P. Wiescher, Maul Foster & Alongi, Inc., May 17.

WRCC. 2013. Western Regional Climate Center. <http://www.wrcc.dri.edu/>, April.

Table 1
Summary of Cleanup Levels
Former Hambleton Lumber Mill
Washougal, Washington

Indicator Hazardous Substances	Soil CULs (mg/kg)	Groundwater CULs (µg/L)
Metals		
Lead	250	NV
Mercury	2	NV
Polychlorinated Biphenyls		
Total PCBs	1	NV
Petroleum Hydrocarbons		
DRO	2000	500
RRO	2000	500
Carcinogenic Polycyclic Aromatic Hydrocarbons		
Benzo(a)anthracene	NV	NV
Benzo(a)pyrene	0.1	NV
Benzo(b)fluoranthene	NV	NV
Benzo(k)fluoranthene	NV	NV
Chrysene	NV	NV
Dibenzo(a,h)anthracene	NV	NV
Indeno(1,2,3-cd)pyrene	NV	NV
cPAH TEC	0.1	NV
Volatile Organic Compounds		
Methylene chloride	0.02	NV
Notes: cPAH TEC = carcinogenic polycyclic aromatic hydrocarbon toxicity equivalent concentration. CULs = Cleanup levels DRO = diesel-range organics µg/L = micrograms per kilogram mg/kg = milligrams per kilogram NV = no value PCBs = polychlorinated biphenyls RRO = residual range organics		



Site Address: 335 South A Street, Washougal, Washington
 Source: US Geological Survey (1990) 7.5-minute
 topographic quadrangle: Camas & Washougal
 Section 12, Township 1 N, Range 3E

Note: Property boundary is approximate and based on legal
 description provided by KC Development (Sept. 10, 2012).



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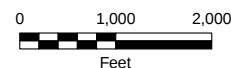
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Property Boundary

Figure 1
Property Location

Port of Camas-Washougal
 Washougal, Washington



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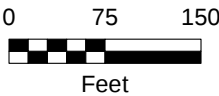


Figure 2
Site Features
Port of Camas-Washougal
Washougal, Washington

Legend

- Catch Basin
- Outfall
- Potential Dry Well
- Monitoring Well
- Stockpile
- Fill
- Aggregate Recycling Area
- Former Swale
- Current and Former Site Buildings
- Site Boundary
- Property Boundary

- Notes:
1. Site features were interpreted from aerial photography and gathered from Figures 2, 3, and 11 of the Initial Independent Cleanup Report and Risk Assessment by Certified Environmental Consulting, Inc. and Evren Northwest (October 16, 2009).
 2. Potential fill based on site contact interview.
 3. UST = Underground Storage Tank.
 4. Property boundary is approximate and based on legal description provided by KC Development (Sept. 10, 2012).



Source: Aerial photograph obtained from ESRI, Inc. ArcGIS Online/Bing Maps.

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Figure 3
Soil Sample
Locations and Exceedances
Port of Camas-Washougal
Washougal, Washington

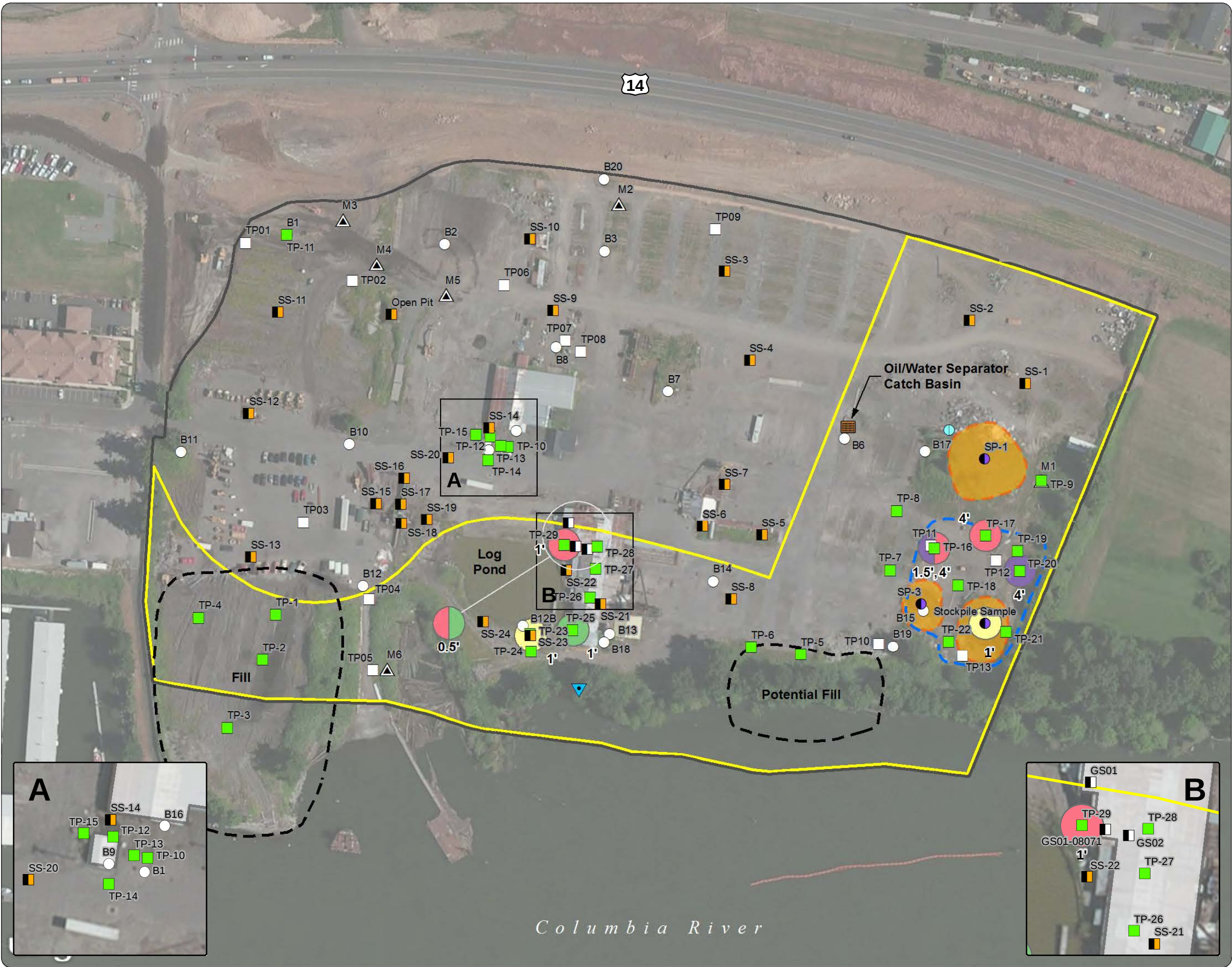




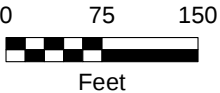
Figure 4
Groundwater and Surface
Water Sample Locations and
Exceedances
Port of Camas-Washougal
Washougal, Washington

Legend

- 2011 Monitoring Well
- Historical Monitoring Well
- Historical Surface Water Sample
- Exceedances
 - TPH
 - Metals
 - PAH
- Catch Basin
- Outfall
- Potential Dry Well
- Stockpile
- Fill Material
- Aggregate Recycling Area
- Former Site Buildings
- Site Boundary
- Property Boundary

Contaminant Index
TPH = Total Petroleum Hydrocarbons
Metals = Lead and/or Mercury
PAH = Polycyclic Aromatic Hydrocarbons

- Notes:
- Exceedances shown represent the Washington Model Toxics Control Act (MTCA) Method A Table Values.
 - Sample locations and site features were interpreted from aerial photography and gathered from Figures 2, 3, and 11 and Tables 1 and 2 of the Initial Independent Cleanup Report and Risk Assessment by Certified Environmental Consulting NW (CEC), and Evren Northwest (October 16, 2009).
 - Property boundary is approximate and based on legal description provided by KC Development (Sept. 10, 2012).



Source: Aerial photograph obtained from ESRI, Inc. ArcGIS Online/Bing Maps.

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Path: X:\0229.04\08 Remedial Action\Projects\Figs Sediment Sample Locations and Exceedances.mxd
Print Date: 9/10/2013
Approved By: aluphes
Produced By: ischane/marionn
Project: 0229.04.08



Figure 5
Sediment Sample
Locations and Exceedances

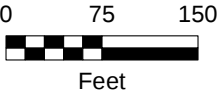
Port of Camas-Washougal
Washougal, Washington

Legend

- Exceedances
- TPH
 - VOC
 - 2011 Sediment Sample Location
 - Historical Sediment Sample Location
 - Catch Basin
 - Outfall
 - Potential Dry Well
 - Stockpile
 - Fill Material
 - Aggregate Recycling Area
 - Former Site Buildings
 - Site Boundary
 - Property Boundary

Contaminant Index
TPH = Total Petroleum Hydrocarbons
VOC = Volatile Organic Compounds

- Notes:**
1. Sample locations and site features were interpreted from aerial photography and gathered from Figures 2, 3, and 11 and Tables 1 through 13 of the Initial Independent Cleanup Report and Risk Assessment by Certified Environmental Consulting NW (CEC), and Evren Northwest (October 16, 2009).
 2. Potential fill based on site contact interview.
 3. UST = Underground Storage Tank.
 4. Sediment sample results in Columbia River samples compared to Ecology 2010 or Fresh-water Criteria Screening levels. Sediment sample results in log pond compared to Washington Model Toxics Control Act (MTCA) Method A Soil Cleanup Level values.
 5. Property boundary is approximate and based on legal description provided by KC Development (Sept. 10, 2012).



Source: Aerial photograph obtained from ESRI, Inc. ArcGIS Online/Bing Maps.

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Figure 6
Remediation Boundaries
Port of Camas-Washougal
Washougal, Washington

Legend

-  Site Boundary
-  Property Boundary
-  Stockpile to be Removed
- Remediation Areas**
-  Impacted Log Pond Sediment and Surface Water
-  Impacted Mill Area Soil
-  Impacted Aggregate Recycling Area Soil

Approximate Remediation Areas
and Approximate Square Footage
Log Pond Sediment: 22,000
Log Pond Soil: 12,500
Hazardous Waste: 18,800

Notes:
1. Property boundary is approximate and based on legal description provided by KC Development (Sept. 10, 2012).



Source: Aerial photograph obtained from Clark County GIS

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May 17, 2013
Project No. 0229.04.08

Guy Barrett
Washington State Department of Ecology
Southwest Regional Office
PO Box 47775
Olympia, Washington 98504

Re: Terrestrial Ecological Evaluation for the former Hambleton Lumber Mill, Washougal, Washington

Dear Mr. Barrett:

On behalf of the Port of Camas-Washougal, Maul Foster & Alongi, Inc. (MFA) has prepared this terrestrial ecological evaluation (TEE) for the former Hambleton Lumber Mill at 335 South A Street, Washougal, Washington (the Property) (see Figure 1). Historically, the Property was used as a lumber mill; activities at the Property included log storage, sawmill, planer, lumber storage and shipping, and other operations ancillary to mill operations. Historical site assessments and a Focused Site Assessment Report (MFA, 2012) have characterized sources of contamination and the nature and extent of hazardous substances in environmental media above Model Toxics Control Act cleanup levels protective of human health. This TEE was completed to evaluate contamination in soils and the potential for adverse effects to any potentially exposed ecological receptors.

A TEE for the Property was performed following the procedures outlined in Washington Administrative Code (WAC) 173-340-7490 and 173-340-7493. The purpose of this TEE is to (1) present sufficient information to characterize risks to ecological receptors, and (2) evaluate the ecological protectiveness of the remedial alternatives being assessed for the Property (see WAC 173-340-7490(1)(b)), as described in MFA (2012). The TEE therefore includes problem formulation, an ecological screening evaluation, and a remedy evaluation.

The proposed alternatives (excavation or soil cap) for the Property are protective of human health (MFA, 2012). This TEE demonstrates that chemicals in property soil, with the exception of barium, are not expected to result in adverse risk to ecological receptors. However, note that barium is within expected natural background concentrations for the Northwest and common sources of barium include volcanic rocks (ASTDR, 2013). In addition, the remedial action developed for protection of human health will further reduce potential ecological exposure.

PROBLEM FORMULATION

Exposure pathways and points and chemicals of ecological concern (CECs) are identified to define the focus of the TEE as follows:

Exposure Pathways: The Property is located in sections 12 and 13 of township 1 north and range 3 east, and section 7 of township 1 north and range 4 east of the Willamette Meridian (see Figure 1). The Property is approximately 1,000 feet long (north-south) and 1,600 feet wide (east-west) and is generally flat, with a slight slope toward the Columbia River (south). The Columbia River is at the Property's southern boundary, at the end of an approximately 32-foot downward slope (see Figure 2).

The Property is bordered by State Route 14 to the north and South 2nd Street to the west, with an undeveloped vacant lot to the east. Adjoining properties west of 2nd Street are a commercial hotel and a vacant building slated for commercial use. Properties north of State Route 14 are in mixed commercial, residential, and light industrial use.

There have been no structures on the Property since the demolition of a lumber mill, shop, office, chemical storage shed, and planer building. Demolition of these structures was generally completed in November 2011. Concrete foundations from the demolished structures remain. The Property is surfaced with asphalt and gravel, and some areas of the Property are covered in woody debris from log storage (see Figure 2).

Property conditions are generally unsuitable for ecological habitat. The substrate is unsuitable for most native plants; the density and diversity of plants is very low, with some ruderal vegetation present. The Property also does not provide important wildlife habitat; while it is possible for wildlife to visit the Property, potential exposures to impacted soil are expected to be minimal because there is substantial human disturbance and development and no important resources for wildlife. However, exposure routes assessed for this TEE include ingestion of chemicals in soil and plant material or prey.

Exposure Points: The exposure point evaluated for this TEE includes the entire Property and is defined by the soil point of compliance of 0 to 15 feet below ground surface as stated in WAC 173-340-7490 (4)(b).

CECs: CECs are identified by comparing soil concentrations to ecological indicator concentrations (EICs). EICs are from WAC 173-340-900 Table 749-3. According to WAC 173-340-7490(3)(b), the Table 749-3 EICs for industrial or commercial sites are appropriate for terrestrial wildlife unless threatened or endangered plant or invertebrate species are present. Because the Property is surfaced primarily with asphalt, gravel, and woody debris, was used for industrial purposes for at least 50 years, is currently zoned as highway commercial, and is planned for redevelopment that will support commercial operations (MFA, 2012), EICs for wildlife are suitable for identifying CECs, consistent with WAC 173-340-7493 (2)(i).

WAC 173-340-7493 (2)(i) further specifies that hazardous substances may be eliminated from further consideration where the 95th percentile upper confidence limit (UCL) soil concentration found at the site does not exceed EICs described in Table 749-3. UCLs were

therefore also compared with EICs, which is appropriate, as wildlife receptors are mobile and are therefore more likely to be exposed to site-wide concentrations than to discrete locations.

ECOLOGICAL SCREENING

The ecological screening evaluation was performed first to identify discrete locations where chemicals in soil were found at concentrations greater than the wildlife EICs. Table 1 shows a comparison of site concentrations for chemicals detected in soil with EICs for metals, polychlorinated biphenyls (PCBs), total petroleum hydrocarbons, and polycyclic aromatic hydrocarbons. For the purposes of this screening evaluation, Table 1 includes data pertaining to all soil with EICs that was collected throughout the Property. To determine CECs, UCLs were also compared with EICs (see Table 2). UCLs were calculated and selected according to the U.S. Environmental Protection Agency's (USEPA) ProUCL program recommendations (USEPA, 2010). Derivation of UCLs is provided in the attachment.

Individual concentrations of metals (arsenic, barium, lead, mercury) and total PCBs exceeded EICs (see Table 1). The general nature and extent of these constituents have been discussed in the Focused Site Assessment Report (MFA, 2012). Soil EIC exceedances occur primarily in the aggregate recycling area. Note that this area is targeted for remedial action (MFA, 2012) to be protective of human health. Screening results are described below and are summarized in Table 2:

- Arsenic (maximum detection of 10.7 milligrams per kilogram [mg/kg]) marginally exceeds the EIC of 7 mg/kg (based on arsenite) at seven locations. However, the UCL (4.5 mg/kg) is well below the EIC, indicating that no adverse effects to wildlife receptors are expected. Therefore, arsenic is not selected as a CEC.
- Lead concentrations exceed the EIC at seven locations in the aggregate recycling area. However, the UCL (98.1 mg/kg) is below the EIC of 118 mg/kg, indicating that no adverse effects to wildlife receptors are expected. In addition, the aggregate recycling area is targeted for remedial action, which would further reduce ecological exposure to soils in this area. Lead is not selected as a CEC.
- Mercury exceeds the EIC at one location in the aggregate recycling area. The UCL (1.3 mg/kg) is well below the EIC of 5.5 mg/kg and the recycling area is targeted for remedial action; no adverse effects are expected. Therefore, mercury is not selected as a CEC.
- Total PCBs exceed the EIC at five locations in the area targeted for remedial action (aggregate recycling area). The UCL (0.4 mg/kg) is below the EIC of 0.65 mg/kg. No adverse effects are therefore expected. PCBs are not selected as a CEC.
- Barium exceeds the EIC at multiple locations throughout the Property and is selected as a CEC. Barium is discussed further below.

REMEDY EVALUATION

A soil capping or soil excavation remedy protective of human health is proposed for the log pond, mill, and aggregate recycling areas (MFA, 2012). The purpose of a cap is to prevent people from directly contacting chemicals by creating a physical exposure barrier. The soil cap would consist of a geotextile liner beneath a minimum of 2 feet of clean soil. The geotextile liner would serve as a demarcation layer indicating the bottom of the soil cap, and would prevent upward migration of fine-grained material while enhancing the barrier effect of the overlying soil cover. This soil cap would be expected to reduce potential for future ecological exposure to the aggregate recycling area, where most of EIC exceedances occur (see Table 1); capping would also further decrease areawide chemical concentrations that are already below EICs. If a soil excavation remedy is selected, soil removal will similarly reduce discrete locations with concentrations above EICs and will further reduce areawide concentrations to below EICs. Neither alternative is expected to significantly decrease exposure to barium, as concentrations are generally consistent and elevated relative to the EIC throughout the Property.

CEC EVALUATION

Barium is the only chemical identified as a CEC for property soils. Barium soil concentrations are consistent throughout the Property. Average and median concentrations are similar (146 mg/kg and 140 mg/kg, respectively), indicating that the data are not significantly skewed, and the maximum concentration is 283 mg/kg. While the Washington State Department of Ecology did not identify natural background for Washington for barium in its guidance concerning natural background of metals in soil (1994), the Oregon Department of Environmental Quality (DEQ) published a recent (2013) document that determined a background value of 790 mg/kg for the Portland Basin, and the lowest background concentration for Oregon was identified as 630 mg/kg (DEQ, 2013). Concentrations of barium on the Property therefore likely reflect natural background concentrations.

In addition, for a variety of reasons barium concentrations are not likely to result in unacceptable risk to ecological receptors. The Property does not provide important ecological habitat, and potential exposures to impacted soil are expected to be minimal. Barium concentrations are also an order of magnitude below USEPA ecological screening criteria developed for wildlife (2,000 mg/kg) (USEPA, 2005), indicating that adverse risks to receptors at the Property are unlikely.

CONCLUSIONS

The remedial options proposed for the Property, including the selected remedy, which consolidates and caps impacted soil in the log pond, mill, and aggregate recycling areas, will be protective of both human health and the environment. No additional remedial actions are required for protection of the environment. If you have any questions, please contact us.

Sincerely,

Maul Foster & Alongi, Inc.



Madi Novak
Senior Environmental Scientist



Phil Wiescher, PhD
Staff Environmental Scientist

Attachments: Limitations
References
Tables
Figures
ProUCL Output

LIMITATIONS

The services undertaken in completing this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

REFERENCES

ASTDR. 2013. Internet site (re barium and barium compounds), <http://www.atsdr.cdc.gov/toxprofiles/tp24-c6.pdf>, May 14.

DEQ. 2013. Development of Oregon background metals concentrations in Soil. Oregon Department of Environmental Quality, Environmental Cleanup Program. March.

Ecology. 1994. Natural background soil metals concentrations in Washington State. Publication No. 94-115. Washington State Department of Ecology, Toxics Cleanup Program. October.

MFA. 2012. Focused site assessment report. Prepared for the Port of Camas Washougal. Maul Foster & Alongi, Inc., Vancouver, Washington. January 16.

USEPA. 2005. Ecological soil screening levels for barium. OSWER Directive 9285.7-63. U.S. Environmental Protection Agency. February.

USEPA. 2010. ProUCL ver. 4.1.00 Technical guide (draft). EPA/600/R-07/041. U.S. Environmental Protection Agency, Office of Research and Development, Washington DC. May.

TABLES



Table 1
Soil Analytical Results
Former Hambleton Lumber Mill
Washougal, Washington

Area	MTCA Wildlife Ecological Indicator Concentration	Open Pit	Stockpiles			Planer Building			Debarker						High Traffic / Storage Areas				
Location		Open Pit 1	SP-01	SP-02	SP-03	SS-05	SS-06	SS-07	SS-15	SS-16	SS-17	SS-18	SS-19	SS-20	SS-01	SS-02	SS-03	SS-04	SS-08
Date Collected		9/15/2011	9/8/2011	9/8/2011	9/8/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/6/2011	9/6/2011	9/7/2011	9/7/2011	9/7/2011
Start Depth (ft)		20	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.5	0.5	0.5
End Depth (ft)		21	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	1.5	1.5	1.5
Metals (mg/kg)																			
Arsenic	7 ^a	4.31	5.52	4.44	3.55	4.93	4.55	6.71	--	6.07	--	--	--	10.7	2.06 U	2.22 U	5.89	1.42	3.75
Barium	102	213 J	76.5	70.1	65.8	214	166	230	--	234	--	--	--	132	147 J	139 J	158	73.6	180
Cadmium	14	0.118 U	0.0766 U	0.0591 U	0.0683 U	0.115 U	0.088 U	0.102 U	--	0.0823 U	--	--	--	0.123 U	0.103 U	0.111 U	0.0867 U	0.0637 U	0.0819 U
Chromium	67	16.1 J	8.39	9.77	6.91	17.7	17.6	20.1	--	16.2	--	--	--	18.3	20.2	16.9	18.2	6.02	16.4
Lead	118	7.86 J	9.33	18.8	3.07	3.2	1.76 U	6.98	--	20.5	--	--	--	6.36	26.9	11.4	1.73 U	4.23	2.68
Mercury	5.5 ^b	0.03	0.0277	0.0104	0.0381	0.232	0.0181	0.0404	--	0.0625	--	--	--	0.0226	0.0281	0.0433	0.0329	0.253	0.0247
Selenium	0.3	2.36 U	1.53 U	1.18 U	1.37 U	2.3 U	1.76 U	2.04 U	--	1.65 U	--	--	--	2.45 U	2.06 U	2.22 U	1.73 U	1.27 U	1.64 U
PCBs (mg/kg)																			
Total PCBs	0.65	0.0202	0.0174	0.0194	0.336 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TPH (mg/kg)																			
DRO	6000 ^c	--	17 U	26.7	15.2 U	20 U	18.5 U	33	18 U	17.8 U	17.1 U	146	886	19.9 U	67.2	44.1	18.2 U	26.1	17.7 U
GRO	5000 ^c	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PAHs (mg/kg)																			
Benzo(a)pyrene	12	0.0348	0.0363	0.232	0.00674 U	--	--	--	--	0.0395 U	--	--	--	--	0.0453 J	--	--	--	--

Table 1
Soil Analytical Results
Former Hambleton Lumber Mill
Washougal, Washington

Area	MTCA Wildlife Ecological Indicator Concentration	High Traffic / Storage Areas					Fill Areas						B-1 , M1, and Potential UST Pit (south side)					
Location		SS-09	SS-10	SS-11	SS-12	SS-13	TP-01	TP-02	TP-03	TP-04	TP-05	TP-06	TP-09	TP-09	TP-10	TP-10	TP-11	TP-11
Date Collected		9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/6/2011	9/6/2011	9/6/2011	9/6/2011	9/6/2011	9/6/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011
Start Depth (ft)		0.5	0.5	1.5	0.5	0.5	2.8	2.0	2.8	2.0	3.0	3.0	1.8	6.8	1.8	6.8	1.8	6.8
End Depth (ft)		1.5	1.5	2.5	1.5	1.5	3.3	5.0	3.3	4.5	13.0	13.0	2.3	7.3	2.3	7.3	2.3	7.3
Metals (mg/kg)																		
Arsenic	7 ^a	7.36	3.37	5.37	6.61	7.3	--	--	--	2.53	3.88 U	--	6.7	5.01	5.82	7.77	3.37	4.75
Barium	102	242	104	76.3	133	78.6	--	--	--	138	186 J	--	67.4	194	255	112	83.4	173
Cadmium	14	0.0972 U	0.0707 U	0.107 U	0.272	0.0711 U	--	--	--	0.198	0.291	--	0.11 U	0.116 U	0.109 U	0.0936 U	0.123 U	0.0987 U
Chromium	67	19.9	5.94	8.28	13.7	10.7	--	--	--	19.5	21.2	--	38.6	29.6	16.3	17.6	9.2	6.59
Lead	118	6.23	3.8	7.11	42.4	5.75	--	--	--	12.6	46.8	--	21	3.05	2.18 U	1.87 U	17.1	1.97 U
Mercury	5.5 ^b	0.0574	0.02	0.0165	0.0566	0.0222	--	--	--	0.0487 J	0.0963	--	0.0662	0.0125 U	0.0543	0.128	0.0533	0.0614
Selenium	0.3	1.94 U	1.41 U	2.14 U	2.17 U	1.42 U	--	--	--	2.33 U	3.88 U	--	2.2 U	2.32 U	2.18 U	1.87 U	2.47 U	1.97 U
PCBs (mg/kg)																		
Total PCBs	0.65	--	--	--	--	--	0.000459 U	0.000418 U	0.000466 U	0.000403 U	0.000724 U	0.00055 U	--	--	--	--	--	--
TPH (mg/kg)																		
DRO	6000 ^c	18.1 U	16.1 U	70.9	53.2	17.1 U	305	--	--	--	185	187	79.9	19.5 U	19 U	18 U	68.7	17.8 U
GRO	5000 ^c	--	--	--	--	--	--	--	--	--	--	--	5.39 U	4.42 U	23.7	5.85 U	7.93 U	3.48 U
PAHs (mg/kg)																		
Benzo(a)pyrene	12	--	--	0.0377 J	--	--	0.0202	0.0226	0.0159	0.00807 U	0.0145 U	0.0231	0.015	0.032	0.00844 U	0.00799 U	0.013	0.0079 U

Table 1
Soil Analytical Results
Former Hambleton Lumber Mill
Washougal, Washington

Area	MTCA Wildlife Ecological Indicator Concentration	Petroleum Storage Area					Aggregate Recycling Area						
Location		SS-14	TP-12	TP-13	TP-14	TP-15	TP-16	TP-16	TP-16	TP-17	TP-17	TP-17	Comp (TP-16 and TP-17)
Date Collected		9/7/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011
Start Depth (ft)		0.5	0.8	0.8	0.8	0.8	1.3	3.8	9.8	1.3	3.8	10.3	NA
End Depth (ft)		1.5	1.3	1.3	1.3	1.3	1.8	4.3	10.3	1.8	4.3	10.3	NA
Metals (mg/kg)													
Arsenic	7 ^a	7.15	2.84	2.82 U	2.16 U	2.4 U	2.62 U	2.16 U	2.41 U	2.8	3.53	3.37	--
Barium	102	208	202	151	231	197	161	283	110	195	280	105	--
Cadmium	14	0.0826 U	0.115 U	0.141 U	0.108 U	0.12 U	0.249	0.119	0.12 U	0.27	0.298	0.118 U	--
Chromium	67	15.6	20.1	17.6	19.1	18.1	20.6	19.3	16.2	29.8	30.9	14.5	--
Lead	118	7.96	7.41	14.6	4.68	2.46	259	412	2.41 U	248	438	2.36 U	--
Mercury	5.5 ^b	0.0487	0.0306	0.0285	0.0264	0.0229	1.12	9.53	0.0201	0.842	0.94	0.0192 U	--
Selenium	0.3	1.65 U	2.3 U	2.82 U	2.16 U	2.4 U	2.62 U	2.16 U	2.41 U	2.08 U	2.3 U	2.36 U	--
PCBs (mg/kg)													
Total PCBs	0.65	--	--	--	--	--	1.869	0.0633	0.000433 U	0.352	0.763	0.000408 U	--
TPH (mg/kg)													
DRO	6000 ^c	25.8	39.8	291	19.5 U	19.4 U	--	--	--	--	--	--	--
GRO	5000 ^c	30.2	--	--	--	--	--	--	--	--	--	--	--
PAHs (mg/kg)													
Benzo(a)pyrene	12	--	--	--	--	--	0.0468	0.0533	0.0121	0.0505	0.0608	0.00817 U	--

Table 1
Soil Analytical Results
Former Hambleton Lumber Mill
Washougal, Washington

Area	MTCA Wildlife Ecological Indicator Concentration	Aggregate Recycling Area										High Traffic / Storage Areas / Aggregate Recycling Area	
Location		TP-18	TP-19	TP-19	TP-19	TP-20	TP-20	TP-21	TP-22	TP-22	TP-22	TP-07	TP-08
Date Collected		10/27/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011	9/6/2011	9/6/2011
Start Depth (ft)		3.8	1.3	3.3	5.8	3.8	9.8	3.8	1.3	2.8	9.8	1.0	1.0
End Depth (ft)		4.3	1.8	3.3	6.3	4.3	10.3	4.3	1.8	3.3	10.3	2.0	2.0
Metals (mg/kg)													
Arsenic	7 ^a	4.28	3.9	3.44	2.45 U	2.16 U	--	2.09 U	2.61	2.05 U	2.62 U	6.09	3.51
Barium	102	205	171	123	239	149	--	75.6	126	33.5	141	106 J	238 J
Cadmium	14	0.129 U	0.28	0.225	0.123 U	0.237	--	0.104 U	0.163	0.102 U	0.183	0.214	0.111 U
Chromium	67	24.1	18.8	16	25.2	18.2	--	11	15.4	7.39	15	16.3	18.3
Lead	118	66.2	143	212	10.5	178	--	91.4	12.2	40.3	94.8	24.2	5.25
Mercury	5.5 ^b	0.885	0.376	0.856	0.0338	0.771	--	0.825	0.284	0.211	0.0433	0.019	0.0314
Selenium	0.3	2.58 U	2.24 U	2.05 U	2.45 U	2.16 U	--	2.09 U	2.17 U	2.05 U	2.62 U	2.14 U	2.21 U
PCBs (mg/kg)													
Total PCBs	0.65	0.0717	0.657	0.546	0.0168	1.17	0.00118	0.852	0.322	0.34	0.454	--	--
TPH (mg/kg)													
DRO	6000 ^c	--	--	--	--	--	--	--	--	--	--	16.7 U	18.6 U
GRO	5000 ^c	--	--	--	--	--	--	--	--	--	--	--	--
PAHs (mg/kg)													
Benzo(a)pyrene	12	0.0323	0.0336	0.0609	0.00883 U	--	0.0688	0.0638	0.045	0.0501	0.00909 U	--	--

Table 1
Soil Analytical Results
Former Hambleton Lumber Mill
Washougal, Washington

Area	MTCA Wildlife Ecological Indicator Concentration	Log Pond Overfill							Mill					
Location		SS-22	SS-23	SS-24	TP-23	TP-24	TP-25	TP-25	SS-21	TP-26	TP-27	TP-28	TP-29	TP-29
Date Collected		9/8/2011	9/8/2011	9/8/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011	9/8/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011
Start Depth (ft)		0.5	0.5	0.5	2.8	0.8	0.8	2.8	0.0	0.8	0.8	0.8	0.8	2.8
End Depth (ft)		1.5	1.5	1.5	3.3	1.3	1.3	3.3	1.0	1.3	1.3	1.3	1.3	3.3
Metals (mg/kg)														
Arsenic	7 ^a	4.88	5.12	7.13	3.18 U	2.02 U	1.62 U	--	8.3	3.37	4.32	2.24	2	--
Barium	102	163	65.5	95.9	92.2	140	53.8	--	151	67	102	114	47.9	--
Cadmium	14	0.264	0.0671 U	0.0979 U	0.159 U	0.101 U	0.0812 U	--	0.0815 U	0.122 U	0.124 U	0.104 U	0.352	--
Chromium	67	14.5	9.97	13.4	12.5	15	4.52	--	21.2	17.1	14.6	18.4	10.8	--
Lead	118	4.15	14.9	9.29	4.51	20.1	1.62 U	--	4.85	2.88	6.79	2.94	109	--
Mercury	5.5 ^b	0.0188 U	0.0738	0.0415	0.0235 U	0.0384	0.0213	--	0.0111	0.0182 U	0.0194 U	0.0244	2.12	0.123
Selenium	0.3	1.82 U	1.34 U	1.96 U	3.18 U	2.02 U	1.62 U	--	1.63 U	2.44 U	2.48 U	2.08 U	1.95 U	--
PCBs (mg/kg)														
Total PCBs	0.65	0.000375 U	0.0286	0.143	--	--	--	--	0.000402 U	--	--	--	--	--
TPH (mg/kg)														
DRO	6000 ^c	834	207	219	409	17.6 U	928	21.3	18.1 U	19.1 U	18.6 U	18.1 U	83.7	--
GRO	5000 ^c	2.82 U	2.62 U	2.74 U	--	--	--	--	3.02 U	--	--	--	--	--
PAHs (mg/kg)														
Benzo(a)pyrene	12	0.00752 U	0.109	0.0402	0.0276	0.0203	0.00736 U	--	0.00805 U	0.00848 U	0.052	0.00967	0.0391	--

Table 1
Soil Analytical Results
Former Hambleton Lumber Mill
Washougal, Washington

NOTES:

-- = not available.

Bold = values exceed screening criteria.

DRO = diesel-range organics.

ft = feet.

GRO = gasoline-range organics.

J = estimated concentration.

mg/kg = milligrams per kilogram.

MTCA = Model Toxics Control Act.

PAH = polycyclic aromatic hydrocarbon.

PCB = polychlorinated biphenyl.

TPH = total petroleum hydrocarbons.

U = analyte not detected at or above method reporting limit (MRL). MRL value is posted unless noted otherwise.

^aUsed arsenic III (arsenite) value of 7 mg/kg, not arsenic V (arsenate) value of 132 mg/kg.

^bInorganic mercury.

^cResidual saturation also has to be considered.

Table 2
Soil Screening Results
Former Hambleton Lumber Mill
Washougal, Washington

Analyte	MTCA Wildlife Ecological Indicator Concentration	Maximum Detected Concentration	Number of Exceedances	95% UCL
Metals (mg/kg)				
Arsenic	7 ^a	10.7	7	4.5 ^d
Barium	102	283	44	159.7
Cadmium	14	0.352	0	NC
Chromium	67	38.6	0	NC
Lead	118	438	7	98.1
Mercury	5.5 ^b	9.53	1	1.3
Selenium	0.3	ND	0	NC
PCBs (mg/kg)				
Total PCBs	0.65	1.869	5	0.4
TPH (mg/kg)				
DRO	6000 ^c	928	0	NC
GRO	5000 ^c	30.2	0	NC
PAHs (mg/kg)				
Benzo(a)pyrene	12	0.232	0	NC
NOTES: Bold = values exceed screening criteria. DRO = diesel-range organics. GRO = gasoline-range organics. mg/kg = milligrams per kilogram. ND = not detected. MTCA = Model Toxics Control Act. NC = not calculated. PAH = polycyclic aromatic hydrocarbon. PCB = polychlorinated biphenyl. TPH = total petroleum hydrocarbons. UCL = upper confidence limit, calculated using ProUCL (see Attachment A). ^aUsed arsenic III (arsenite) value of 7 mg/kg, not arsenic V (arsenate) value of 132 mg/kg. ^bInorganic mercury ^cResidual saturation also has to be considered. ^dProUCL recommended 2 UCLs for use; the higher value is shown (see Attachment A).				

FIGURES





Site Address: 335 South A Street, Washougal, Washington
 Source: US Geological Survey (1990) 7.5-minute
 topographic quadrangle: Camas & Washougal
 Section 12, Township 1 N, Range 3E

Note:
 1. Property boundary is approximate and based on legal
 description provided by KC Development (Sept. 10, 2012).



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Legend

 Property Boundary

Figure 1
Site Location

Port of Camas-Washougal
 Washougal, Washington

0 1,000 2,000
 Feet



Path: X:\0229.04\1.2 RIFS\Projects\Fig2 - Site Features.mxd
Print Date: 5/16/2013
Approved By: anughes
Produced By: mmauon
Project: 0229.04.03



Figure 2 Site Features

Port of Camas-Washougal
Washougal, Washington

Legend

- Catch Basin
- Outfall
- Potential Dry Well
- Monitoring Well
- Stockpile
- Fill
- Aggregate Recycling Area
- Former Swale
- Current and Former Site Buildings
- Site Boundary
- Property Boundary

Notes:

1. Site features were interpreted from aerial photography and gathered from Figures 2, 3, and 11 of the Initial Independent Cleanup Report and Risk Assessment by Certified Environmental Consulting, Inc. and Evren Northwest (October 16, 2009).
2. Potential fill based on site contact interview.
3. UST = Underground Storage Tank.
4. Property boundary is approximate and based on legal description provided by KC Development (Sept. 10, 2012).

0 75 150
Feet



Source: Aerial photograph obtained from ESRI, Inc. ArcGIS Online/Bing Maps.



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ATTACHMENT

PROUCL OUTPUT



	A	B	C	D	E	F	G	H	I	J	K	L
1				General UCL Statistics for Data Sets with Non-Detects								
2	User Selected Options											
3	From File			Sheet2.wst								
4	Full Precision			OFF								
5	Confidence Coefficient			95%								
6	Number of Bootstrap Operations			2000								
7												
8												
9	Arsenic											
10												
11	General Statistics											
12	Number of Valid Data				60		Number of Detected Data				43	
13	Number of Distinct Detected Data				40		Number of Non-Detect Data				17	
14	Number of Missing Values				6		Percent Non-Detects				28.33%	
15												
16	Raw Statistics					Log-transformed Statistics						
17	Minimum Detected				1.42		Minimum Detected				0.351	
18	Maximum Detected				10.7		Maximum Detected				2.37	
19	Mean of Detected				4.853		Mean of Detected				1.498	
20	SD of Detected				1.939		SD of Detected				0.42	
21	Minimum Non-Detect				1.62		Minimum Non-Detect				0.482	
22	Maximum Non-Detect				3.88		Maximum Non-Detect				1.356	
23												
24	Note: Data have multiple DLs - Use of KM Method is recommended					Number treated as Non-Detect				33		
25	For all methods (except KM, DL/2, and ROS Methods),					Number treated as Detected				27		
26	Observations < Largest ND are treated as NDs					Single DL Non-Detect Percentage				55.00%		
27												
28	UCL Statistics											
29	Normal Distribution Test with Detected Values Only					Lognormal Distribution Test with Detected Values Only						
30	Shapiro Wilk Test Statistic				0.967		Shapiro Wilk Test Statistic				0.984	
31	5% Shapiro Wilk Critical Value				0.943		5% Shapiro Wilk Critical Value				0.943	
32	Data appear Normal at 5% Significance Level					Data appear Lognormal at 5% Significance Level						
33												
34	Assuming Normal Distribution					Assuming Lognormal Distribution						
35	DL/2 Substitution Method						DL/2 Substitution Method					
36	Mean				3.819		Mean				1.121	
37	SD				2.333		SD				0.709	
38	95% DL/2 (t) UCL				4.322		95% H-Stat (DL/2) UCL				4.766	
39												
40	Maximum Likelihood Estimate(MLE) Method					Log ROS Method						
41	Mean				3.569		Mean in Log Scale				1.267	
42	SD				2.698		SD in Log Scale				0.516	
43	95% MLE (t) UCL				4.151		Mean in Original Scale				4.043	
44	95% MLE (Tiku) UCL				4.33		SD in Original Scale				2.093	
45							95% t UCL				4.494	
46							95% Percentile Bootstrap UCL				4.477	
47							95% BCA Bootstrap UCL				4.502	
48							95% H UCL				4.61	
49												

	A	B	C	D	E	F	G	H	I	J	K	L	
50	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only						
51	k star (bias corrected)					5.876	Data appear Normal at 5% Significance Level						
52	Theta Star					0.826							
53	nu star					505.4							
54													
55	A-D Test Statistic					0.193	Nonparametric Statistics						
56	5% A-D Critical Value					0.751	Kaplan-Meier (KM) Method						
57	K-S Test Statistic					0.751	Mean					3.959	
58	5% K-S Critical Value					0.135	SD					2.168	
59	Data appear Gamma Distributed at 5% Significance Level						SE of Mean					0.287	
60							95% KM (t) UCL					4.439	
61	Assuming Gamma Distribution						95% KM (z) UCL					4.432	
62	Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL					4.411	
63	Minimum					0.000001	95% KM (bootstrap t) UCL					4.434	
64	Maximum					10.7	95% KM (BCA) UCL					4.6	
65	Mean					3.584	95% KM (Percentile Bootstrap) UCL					4.513	
66	Median					3.52	95% KM (Chebyshev) UCL					5.211	
67	SD					2.629	97.5% KM (Chebyshev) UCL					5.753	
68	k star					0.289	99% KM (Chebyshev) UCL					6.816	
69	Theta star					12.38							
70	Nu star					34.73	Potential UCLs to Use						
71	AppChi2					22.25	95% KM (t) UCL					4.439	
72	95% Gamma Approximate UCL (Use when n >= 40)					5.595	95% KM (Percentile Bootstrap) UCL					4.513	
73	95% Adjusted Gamma UCL (Use when n < 40)					5.658							
74	Note: DL/2 is not a recommended method.												
75													
76	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.												
77	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).												
78	For additional insight, the user may want to consult a statistician.												
79													
80													
81	Barium												
82													
83	General Statistics												
84	Number of Valid Observations					60	Number of Distinct Observations					59	
85	Number of Missing Values					6							
86													
87	Raw Statistics						Log-transformed Statistics						
88	Minimum					33.5	Minimum of Log Data					3.512	
89	Maximum					283	Maximum of Log Data					5.645	
90	Mean					146.1	Mean of log Data					4.878	
91	Geometric Mean					131.4	SD of log Data					0.487	
92	Median					140.5							
93	SD					63.33							
94	Std. Error of Mean					8.176							
95	Coefficient of Variation					0.434							
96	Skewness					0.28							
97													
98	Relevant UCL Statistics												
99	Normal Distribution Test						Lognormal Distribution Test						
100	Lilliefors Test Statistic					0.077	Lilliefors Test Statistic					0.0901	
101	Lilliefors Critical Value					0.114	Lilliefors Critical Value					0.114	
102	Data appear Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level						

	A	B	C	D	E	F	G	H	I	J	K	L
103												
104	Assuming Normal Distribution						Assuming Lognormal Distribution					
105	95% Student's-t UCL					159.7	95% H-UCL					166.7
106	95% UCLs (Adjusted for Skewness)						95% Chebyshev (MVUE) UCL					190
107	95% Adjusted-CLT UCL (Chen-1995)					159.8	97.5% Chebyshev (MVUE) UCL					208.4
108	95% Modified-t UCL (Johnson-1978)					159.8	99% Chebyshev (MVUE) UCL					244.4
109												
110	Gamma Distribution Test						Data Distribution					
111	k star (bias corrected)					4.652	Data appear Normal at 5% Significance Level					
112	Theta Star					31.4						
113	MLE of Mean					146.1						
114	MLE of Standard Deviation					67.72						
115	nu star					558.2						
116	Approximate Chi Square Value (.05)					504.4	Nonparametric Statistics					
117	Adjusted Level of Significance					0.046	95% CLT UCL					159.5
118	Adjusted Chi Square Value					503.2	95% Jackknife UCL					159.7
119							95% Standard Bootstrap UCL					159.3
120	Anderson-Darling Test Statistic					0.449	95% Bootstrap-t UCL					159.9
121	Anderson-Darling 5% Critical Value					0.753	95% Hall's Bootstrap UCL					159.8
122	Kolmogorov-Smirnov Test Statistic					0.0774	95% Percentile Bootstrap UCL					159.2
123	Kolmogorov-Smirnov 5% Critical Value					0.115	95% BCA Bootstrap UCL					158.9
124	Data appear Gamma Distributed at 5% Significance Level						95% Chebyshev(Mean, Sd) UCL					181.7
125							97.5% Chebyshev(Mean, Sd) UCL					197.1
126	Assuming Gamma Distribution						99% Chebyshev(Mean, Sd) UCL					227.4
127	95% Approximate Gamma UCL (Use when n >= 40)					161.6						
128	95% Adjusted Gamma UCL (Use when n < 40)					162						
129												
130	Potential UCL to Use						Use 95% Student's-t UCL					159.7
131												
132	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
133	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
134	and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.											
135												
136												
137	Lead											
138												
139	General Statistics											
140	Number of Valid Data					60	Number of Detected Data					52
141	Number of Distinct Detected Data					52	Number of Non-Detect Data					8
142	Number of Missing Values					6	Percent Non-Detects					13.33%
143												
144	Raw Statistics						Log-transformed Statistics					
145	Minimum Detected					2.46	Minimum Detected					0.9
146	Maximum Detected					438	Maximum Detected					6.082
147	Mean of Detected					52.66	Mean of Detected					2.773
148	SD of Detected					97.75	SD of Detected					1.462
149	Minimum Non-Detect					1.62	Minimum Non-Detect					0.482
150	Maximum Non-Detect					2.41	Maximum Non-Detect					0.88
151												
152	Note: Data have multiple DLs - Use of KM Method is recommended						Number treated as Non-Detect					8
153	For all methods (except KM, DL/2, and ROS Methods),						Number treated as Detected					52
154	Observations < Largest ND are treated as NDs						Single DL Non-Detect Percentage					13.33%

	A	B	C	D	E	F	G	H	I	J	K	L
155												
156	UCL Statistics											
157	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only					
158	Lilliefors Test Statistic					0.335	Lilliefors Test Statistic					0.126
159	5% Lilliefors Critical Value					0.123	5% Lilliefors Critical Value					0.123
160	Data not Normal at 5% Significance Level						Data not Lognormal at 5% Significance Level					
161												
162	Assuming Normal Distribution						Assuming Lognormal Distribution					
163	DL/2 Substitution Method						DL/2 Substitution Method					
164	Mean					45.77	Mean					2.401
165	SD					92.59	SD					1.663
166	95% DL/2 (t) UCL					65.75	95% H-Stat (DL/2) UCL					92.07
167												
168	Maximum Likelihood Estimate(MLE) Method						Log ROS Method					
169	Mean					36.74	Mean in Log Scale					2.345
170	SD					100.9	SD in Log Scale					1.749
171	95% MLE (t) UCL					58.5	Mean in Original Scale					45.73
172	95% MLE (Tiku) UCL					57.27	SD in Original Scale					92.61
173							95% t UCL					65.71
174							95% Percentile Bootstrap UCL					66.84
175							95% BCA Bootstrap UCL					71.13
176							95% H UCL					107.7
177												
178	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
179	k star (bias corrected)					0.511	Data do not follow a Discernable Distribution (0.05)					
180	Theta Star					103						
181	nu star					53.15						
182												
183	A-D Test Statistic					3.859	Nonparametric Statistics					
184	5% A-D Critical Value					0.812	Kaplan-Meier (KM) Method					
185	K-S Test Statistic					0.812	Mean					45.97
186	5% K-S Critical Value					0.13	SD					91.72
187	Data not Gamma Distributed at 5% Significance Level						SE of Mean					11.96
188							95% KM (t) UCL					65.95
189	Assuming Gamma Distribution						95% KM (z) UCL					65.64
190	Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL					65.9
191	Minimum					0.000001	95% KM (bootstrap t) UCL					75.72
192	Maximum					438	95% KM (BCA) UCL					67.46
193	Mean					45.64	95% KM (Percentile Bootstrap) UCL					67.29
194	Median					7.91	95% KM (Chebyshev) UCL					98.09
195	SD					92.65	97.5% KM (Chebyshev) UCL					120.6
196	k star					0.222	99% KM (Chebyshev) UCL					164.9
197	Theta star					205.5						
198	Nu star					26.65	Potential UCLs to Use					
199	AppChi2					15.88	95% KM (Chebyshev) UCL					98.09
200	95% Gamma Approximate UCL (Use when n >= 40)					76.59						
201	95% Adjusted Gamma UCL (Use when n < 40)					77.6						
202	Note: DL/2 is not a recommended method.											
203												

	A	B	C	D	E	F	G	H	I	J	K	L	
204	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.												
205	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).												
206	For additional insight, the user may want to consult a statistician.												
207													
208													
209	Mercury												
210													
211	General Statistics												
212	Number of Valid Data				61	Number of Detected Data				55			
213	Number of Distinct Detected Data				53	Number of Non-Detect Data				6			
214	Number of Missing Values				5	Percent Non-Detects				9.84%			
215													
216	Raw Statistics				Log-transformed Statistics								
217	Minimum Detected				0.0104	Minimum Detected				-4.566			
218	Maximum Detected				9.53	Maximum Detected				2.254			
219	Mean of Detected				0.381	Mean of Detected				-2.58			
220	SD of Detected				1.316	SD of Detected				1.507			
221	Minimum Non-Detect				0.0125	Minimum Non-Detect				-4.382			
222	Maximum Non-Detect				0.0235	Maximum Non-Detect				-3.751			
223													
224	Note: Data have multiple DLs - Use of KM Method is recommended				Number treated as Non-Detect				17				
225	For all methods (except KM, DL/2, and ROS Methods),				Number treated as Detected				44				
226	Observations < Largest ND are treated as NDs				Single DL Non-Detect Percentage				27.87%				
227													
228	UCL Statistics												
229	Normal Distribution Test with Detected Values Only				Lognormal Distribution Test with Detected Values Only								
230	Lilliefors Test Statistic				0.389	Lilliefors Test Statistic				0.209			
231	5% Lilliefors Critical Value				0.119	5% Lilliefors Critical Value				0.119			
232	Data not Normal at 5% Significance Level				Data not Lognormal at 5% Significance Level								
233													
234	Assuming Normal Distribution				Assuming Lognormal Distribution								
235	DL/2 Substitution Method					DL/2 Substitution Method							
236	Mean				0.344	Mean				-2.788			
237	SD				1.253	SD				1.565			
238	95% DL/2 (t) UCL				0.612	95% H-Stat (DL/2) UCL				0.355			
239													
240	Maximum Likelihood Estimate(MLE) Method					Log ROS Method							
241	Mean				0.00848	Mean in Log Scale				-2.828			
242	SD				1.513	SD in Log Scale				1.621			
243	95% MLE (t) UCL				0.332	Mean in Original Scale				0.344			
244	95% MLE (Tiku) UCL				0.341	SD in Original Scale				1.253			
245						95% t UCL				0.612			
246						95% Percentile Bootstrap UCL				0.632			
247						95% BCA Bootstrap UCL				0.831			
248						95% H UCL				0.385			
249													
250	Gamma Distribution Test with Detected Values Only				Data Distribution Test with Detected Values Only								
251	k star (bias corrected)				0.397	Data do not follow a Discernable Distribution (0.05)							
252	Theta Star				0.96								
253	nu star				43.62								
254													

	A	B	C	D	E	F	G	H	I	J	K	L		
255	A-D Test Statistic					6.402	Nonparametric Statistics							
256	5% A-D Critical Value					0.837	Kaplan-Meier (KM) Method							
257	K-S Test Statistic					0.837	Mean							0.345
258	5% K-S Critical Value					0.128	SD							1.243
259	Data not Gamma Distributed at 5% Significance Level						SE of Mean							0.161
260							95% KM (t) UCL							0.613
261	Assuming Gamma Distribution						95% KM (z) UCL							0.609
262	Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL							0.613
263	Minimum					0.000001	95% KM (bootstrap t) UCL							1.274
264	Maximum					9.53	95% KM (BCA) UCL							0.664
265	Mean					0.343	95% KM (Percentile Bootstrap) UCL							0.642
266	Median					0.0404	95% KM (Chebyshev) UCL							1.045
267	SD					1.253	97.5% KM (Chebyshev) UCL							1.347
268	k star					0.266	99% KM (Chebyshev) UCL							1.942
269	Theta star					1.29								
270	Nu star					32.47	Potential UCLs to Use							
271	AppChi2					20.45	97.5% KM (Chebyshev) UCL							1.347
272	95% Gamma Approximate UCL (Use when n >= 40)					0.545								
273	95% Adjusted Gamma UCL (Use when n < 40)					0.551								
274	Note: DL/2 is not a recommended method.													
275														
276	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.													
277	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).													
278	For additional insight, the user may want to consult a statistician.													
279														
280														
281	Total PCBs													
282														
283	General Statistics													
284	Number of Valid Data					30	Number of Detected Data					19		
285	Number of Distinct Detected Data					19	Number of Non-Detect Data					11		
286	Number of Missing Values					36	Percent Non-Detects					36.67%		
287														
288	Raw Statistics						Log-transformed Statistics							
289	Minimum Detected					0.0012	Minimum Detected					-6.725		
290	Maximum Detected					1.869	Maximum Detected					0.625		
291	Mean of Detected					0.406	Mean of Detected					-2.017		
292	SD of Detected					0.492	SD of Detected					1.944		
293	Minimum Non-Detect					0.0004	Minimum Non-Detect					-7.824		
294	Maximum Non-Detect					0.336	Maximum Non-Detect					-1.091		
295														
296	Note: Data have multiple DLs - Use of KM Method is recommended						Number treated as Non-Detect					21		
297	For all methods (except KM, DL/2, and ROS Methods),						Number treated as Detected					9		
298	Observations < Largest ND are treated as NDs						Single DL Non-Detect Percentage					70.00%		
299														
300	UCL Statistics													
301	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only							
302	Shapiro Wilk Test Statistic					0.801	Shapiro Wilk Test Statistic					0.92		
303	5% Shapiro Wilk Critical Value					0.901	5% Shapiro Wilk Critical Value					0.901		
304	Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level							
305														

	A	B	C	D	E	F	G	H	I	J	K	L
306	Assuming Normal Distribution						Assuming Lognormal Distribution					
307	DL/2 Substitution Method						DL/2 Substitution Method					
308	Mean				0.263		Mean				-4.129	
309	SD				0.433		SD				3.419	
310	95% DL/2 (t) UCL				0.397		95% H-Stat (DL/2) UCL				302.7	
311												
312	Maximum Likelihood Estimate(MLE) Method				N/A		Log ROS Method					
313	MLE yields a negative mean						Mean in Log Scale				-3.559	
314							SD in Log Scale				2.637	
315							Mean in Original Scale				0.258	
316							SD in Original Scale				0.435	
317							95% t UCL				0.393	
318							95% Percentile Bootstrap UCL				0.391	
319							95% BCA Bootstrap UCL				0.412	
320							95% H-UCL				10.5	
321												
322	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
323	k star (bias corrected)				0.507		Data appear Gamma Distributed at 5% Significance Level					
324	Theta Star				0.8							
325	nu star				19.26							
326												
327	A-D Test Statistic				0.384		Nonparametric Statistics					
328	5% A-D Critical Value				0.797		Kaplan-Meier (KM) Method					
329	K-S Test Statistic				0.797		Mean				0.258	
330	5% K-S Critical Value				0.209		SD				0.428	
331	Data appear Gamma Distributed at 5% Significance Level						SE of Mean				0.0802	
332							95% KM (t) UCL				0.395	
333	Assuming Gamma Distribution						95% KM (z) UCL				0.39	
334	Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL				0.389	
335	Minimum				0.000001		95% KM (bootstrap t) UCL				0.469	
336	Maximum				1.869		95% KM (BCA) UCL				0.405	
337	Mean				0.257		95% KM (Percentile Bootstrap) UCL				0.401	
338	Median				0.0198		95% KM (Chebyshev) UCL				0.608	
339	SD				0.436		97.5% KM (Chebyshev) UCL				0.76	
340	k star				0.161		99% KM (Chebyshev) UCL				1.057	
341	Theta star				1.6							
342	Nu star				9.631		Potential UCLs to Use					
343	AppChi2				3.713		95% KM (BCA) UCL				0.405	
344	95% Gamma Approximate UCL (Use when n >= 40)				0.666							
345	95% Adjusted Gamma UCL (Use when n < 40)				0.706							
346	Note: DL/2 is not a recommended method.											
347												
348	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
349	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
350	For additional insight, the user may want to consult a statistician.											

FOCUSED SITE ASSESSMENT REPORT

FORMER HAMBLETON LUMBER MILL



Prepared for
PORT OF CAMAS-WASHOUGAL
WASHOUGAL, WA
January 16, 2012
Project No. 0229.04.03

Prepared by
Maul Foster & Alongi, Inc.
400 East Mill Plain Blvd., Suite 400
Vancouver, WA 98660

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FOCUSED SITE ASSESSMENT REPORT
FORMER HAMBLETON LUMBER MILL

*The material and data in this report were prepared
under the supervision and direction of the undersigned.*

MAUL FOSTER & ALONGI, INC.



Alan R. Hughes

Alan R. Hughes, LG
Senior Geologist

Christina Johnson, LG
Project Geologist

Ada Banasik, PE
Project Engineer

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CONTENTS

TABLES AND ILLUSTRATIONS	VII
ACRONYMS AND ABBREVIATIONS	IX
1 INTRODUCTION	1-1
1.1 REGULATORY FRAMEWORK	1-1
1.2 SITE ASSESSMENT OBJECTIVES	1-1
2 BACKGROUND	2-1
2.1 SITE DESCRIPTION	2-1
2.2 SITE HISTORY	2-1
2.3 PREVIOUS INVESTIGATIONS	2-2
2.4 AREAS NOT OF CONCERN	2-3
2.5 AREAS OF CONCERN	2-4
2.6 GEOLOGY AND HYDROGEOLOGY	2-7
3 FIELD AND ANALYTICAL METHODS	3-1
3.1 SOIL SAMPLING	3-2
3.2 COLUMBIA RIVER SEDIMENT SAMPLING	3-3
3.3 GROUNDWATER SAMPLING	3-4
4 CONCEPTUAL SITE MODEL	4-1
4.1 SOURCE CHARACTERIZATION	4-1
4.2 FATE AND TRANSPORT OF CONTAMINANTS	4-1
4.3 POTENTIAL SOIL EXPOSURE SCENARIOS	4-2
4.4 POTENTIAL GROUNDWATER EXPOSURE SCENARIOS	4-2
4.5 CLEANUP STANDARDS	4-3
5 RISK SCREENING	5-1
5.1 SOIL	5-1
5.2 COLUMBIA RIVER SEDIMENT	5-2
5.3 GROUNDWATER	5-3
5.4 SUMMARY	5-4
6 CLEANUP ACTION EVALUATION	6-1
6.1 ALTERNATIVE 1: EXCAVATION AND OFF-SITE DISPOSAL OF CONTAMINATED SOIL AND LOG POND SEDIMENT	6-1
6.2 ALTERNATIVE 2: CAPPING AND INSTITUTIONAL CONTROLS	6-3
LIMITATIONS	
REFERENCES	
TABLES	
FIGURES	
APPENDIX A	
BORING LOGS AND WELL INSTALLATION LOG	
APPENDIX B	
GROUNDWATER FIELD SAMPLING DATA SHEETS	

CONTENTS (CONTINUED)

APPENDIX C
HISTORICAL LOG POND ANALYTICAL DATA

APPENDIX D
LABORATORY ANALYTICAL RESULTS

APPENDIX E
DATA VALIDATION MEMORANDUM

TABLES AND ILLUSTRATIONS

FOLLOWING REPORT:

TABLES

- 1 SOIL SAMPLE AND ANALYSIS SUMMARY
- 2 METAL, POLYCHLORINATED BIPHENYL, AND PETROLEUM
HYDROCARBON ANALYTICAL RESULTS IN SOIL
- 3 VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS IN SOIL
- 4 POLYCYCLIC AROMATIC HYDROCARBON ANALYTICAL RESULTS IN SOIL
- 5 SEDIMENT SAMPLE RESULTS
- 6 GROUNDWATER SAMPLE RESULTS
- 7 REMEDIAL COST ESTIMATE—ALTERNATIVE 1
- 8 REMEDIAL COST ESTIMATE—ALTERNATIVE 2

FIGURES

- 1 SITE LOCATION
- 2 SITE FEATURES
- 3 HISTORICAL SOIL SAMPLE LOCATIONS AND EXCEEDANCES
- 4 SOIL SAMPLE LOCATIONS AND EXCEEDANCES
- 5 SEDIMENT SAMPLE LOCATIONS AND EXCEEDANCES
- 6 GROUNDWATER AND SURFACE WATER SAMPLE LOCATIONS AND
EXCEEDANCES
- 7 CONCEPTUAL SITE MODEL OF POTENTIAL HUMAN AND ECOLOGICAL
EXPOSURE PATHWAYS

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ACRONYMS AND ABBREVIATIONS

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CEC	Certified Environmental Consulting, Inc.
cPAH	carcinogenic polycyclic aromatic hydrocarbons
CUL	cleanup level
DRO	diesel-range organic
Ecology	Washington State Department of Ecology
ESA	environmental site assessment
Evren	Evren Northwest, Inc.
GRO	gasoline-range organic
IHS	indicator hazardous substance
MFA	Maul Foster & Alongi, Inc.
mg/kg	milligrams per kilogram
MTCA	Model Toxics Control Act
µg/L	micrograms per liter
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
POC	point of compliance
the Port	Port of Camas-Washougal
Property	former Hambleton Lumber Mill at 335 South A Street, Washougal, Washington
RRO	residual-range organic
SL	screening level
SVOC	semivolatile organic compound
TEC	toxicity equivalent concentration
USEPA	U.S. Environmental Protection Agency
UST	underground storage tank
VOC	volatile organic compound
WAC	Washington Administrative Code

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1 INTRODUCTION

On behalf of the Port of Camas-Washougal (the Port), Maul Foster & Alongi, Inc. (MFA) has prepared this site assessment report for the former Hambleton Lumber Mill at 335 South A Street, Washougal, Washington (the Property) (see Figure 1). Historically, the Property was used as a lumber mill and activities at the Property included log storage, sawmill, planer, lumber storage and shipping, and other operations ancillary to mill operations.

1.1 Regulatory Framework

The Port received an Integrated Planning Grant from the Washington State Department of Ecology (Ecology) to support planning for cleaning up the site and redevelopment of the Property into a revitalized asset for the community. The purpose of this focused site assessment is to characterize the nature and extent of the hazardous substance contamination, evaluate potential risk to human health, and screen potential cleanup alternatives.

1.2 Site Assessment Objectives

Historical site assessments identified hazardous substances, including metals, polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs), and petroleum hydrocarbons and their constituents, in environmental media at the Property. Site assessment objectives included the following:

- Review the results of historical investigations and assess the validity of the data.
- Develop a conceptual site model and data quality objectives for additional site characterization.
- Further characterize the nature and extent of hazardous substances in environmental media above Model Toxic Control Act (MTCA) cleanup levels (CULs) and sources of contamination.
- Evaluate potential risk to current and reasonably likely future human receptors at the Property.
- Evaluate potential cleanup options for impacted media on the Property.

2 BACKGROUND

This section describes the physical location and characteristics of the Property, including geology and hydrogeology, and summarizes the site history, including previous investigations.

2.1 Site Description

The Property is located in sections 12 and 13 of township 1 north and range 3 east, and section 7 of township 1 north and range 4 east of the Willamette Meridian (see Figure 1). The Property is approximately 1,000 feet long (north-south) and 1,600 feet wide (east-west) and is generally flat, with a slight slope toward the Columbia River (south). The Columbia River is at the Property's southern boundary, at the end of an approximately 32-foot downward slope.

The Property is bordered by State Route 14 to the north and South 2nd Street to the west, with an undeveloped vacant lot to the east. Adjoining properties to the west of 2nd Street are a commercial hotel and a vacant building slated for commercial use. Properties located north of State Route 14 are in mixed commercial, residential, and light industrial use.

The Property is currently vacant of structures after demolition of a lumber mill, shop, office, chemical storage shed, and planer building. Demolition of these structures was generally completed in November 2011. Concrete foundations from the demolished structures remain. The Property is surfaced with asphalt and gravel; however, areas of the Property are covered in woody debris from log storage.

2.2 Site History

The Property was occupied by a lumber mill since approximately 1948. The lumber mill operations expanded over the years to occupy most of the Property. The Hambleton Lumber Company originally leased the land from the Port in 1953 and eventually bought the Property in the 1970s. The company operated in a niche market, with approximately 75 percent of the mill production in large-dimension green Douglas fir, hemlock, and spruce timbers.

At one time, the Property contained an equipment mechanical shop, a chemical storage shed, a single-family residence, a mill, a debarker, and a planer building (Figure 2). Wood-treating activities were not conducted on the Property. The debarker burned to the ground in 2009. Because of

economic conditions, the mill closed in 2010. All structures have been removed from the Property.

2.3 Previous Investigations

Environmental assessments and investigations were completed at the Property from 2002 through 2009. Previous investigation locations are shown on Figure 3. Environmental concerns identified by MFA are discussed in Section 2.5. The following is a summary of the relevant reports and permits that were reviewed.

Phase I Environmental Site Assessment (ESA), (Certified Environmental Consulting, Inc. [CEC], 2006)

This Phase I ESA indicated that the following recognized environmental conditions were present on the Property:

- Three underground storage tanks (USTs) historically were decommissioned on the Property; reportedly, in 2006. The report indicated that one or two of the USTs may have still been present at the Property.
- Aboveground storage tanks were used at the Property.
- Fifty-five-gallon drums of paint with no secondary containment were observed.
- Dry well use.
- Transformers and motors stored throughout the Property.
- Undocumented fill may have included equipment, vehicles and transformers.
- Stained soil from leaking equipment was present on the Property.
- Stormwater from the milling operations was allowed to discharge to the Columbia River.

Preliminary Work Plan for Log Pond Decommissioning (CEC, 2008)

The 2008 preliminary work plan for log pond decommissioning describes the log pond construction surface water and sediment sampling, chemicals of interest associated with the analytical results, and proposed methods of decommissioning.

Note that the log pond was not decommissioned.

DRAFT Initial Independent Cleanup Report and Risk Assessment (CEC, 2009)

The 2009 initial independent cleanup report and risk assessment summarized environmental investigations completed through 2009. The report also included the findings of a magnetic survey and a subsurface environmental investigation conducted from 2006 through 2009. The report included a discussion of chemicals of interest at the Property, soil and groundwater analytical results, log pond sediment and surface water results, stormwater discharge, and groundwater monitoring results at the Property. The report also summarizes petroleum-impacted soil removal actions south of the equipment mechanical shop.

The magnetic survey and subsequent subsurface investigations did not locate any USTs. The analytical data from this report were used to scope the 2011 site assessment conducted by MFA.

The report recommended decommissioning the log pond, removing surficial soil underlying the mill area, and a subsequent residual risk assessment incorporating these two actions.

2.4 Areas Not of Concern

Based on the review of the above CEC reports, MFA identified the following areas where previous investigations were conducted and analytical results indicated that chemicals were below applicable MTCA CULs or impacts above CULs were removed. Therefore, these areas appear to be of no further environmental concern and were not evaluated by MFA in 2011. The areas described below are shown on Figure 2:

- The oil/water separator and associated drain field. Soil and reconnaissance groundwater samples collected from a boring (B6) adjacent to an oil/water separator did not detect chemicals of interest. Data from monitoring well MW3 adjacent to the area of the oil/water system's drain field (i.e., east of the oil/water separator) indicated that metals and VOCs were not present in concentrations exceeding MTCA Method A CULs.
- Magnetic Anomalies M2 through M6. Six magnetic anomalies (M1 through M6) were identified throughout the Property during the geophysical survey conducted in 2006, as shown on Figure 3. The subsurface investigation text indicated that no features or indications of contamination associated with these anomalies were identified. CEC report Figure 11 indicated that M1 contained contaminants above CULs. This is discussed further in Section 2.5.

- Former UST location. A potential former UST location was identified during the 2006 geophysical survey just south of the former shop (CEC, 2009). Soil sampling indicated that gasoline-range organics (GROs) were present in soil above Method A CULs. The soil was excavated and removed from the Property in 2007. The report indicated that the remaining soil did not exceed CULs for petroleum hydrocarbons. However, the 2009 initial independent cleanup report stated that sample B1-070227-S-7 (report Figure 11 indicates that this sample is associated with M1) was collected from the south side of the excavation (CEC, 2009). Sample B1-070227-S-2 was also collected from the south side of the location, but was not shown on the figures. These samples exceeded CULs and are discussed further in Section 2.5.
- Reconnaissance groundwater samples collected north of the shop (boring B8), south of the petroleum storage area (boring B9), and in the aggregate recycling area (boring B15) contained metals above MTCA Method A CULs. Groundwater samples with low turbidity from monitoring wells throughout the Property did not show elevated metals concentrations. Reconnaissance groundwater samples typically have high turbidity, which can cause samples to have high detections of metals. Since monitoring well samples do not have elevated metals detections, it was determined that further characterization for metals in groundwater was not warranted.

2.5 Areas of Concern

The areas summarized below are of concern and were investigated in 2011 by MFA. The data presented below are summarized from CEC reports. Figure 3 shows soil exceedances and areas of concern identified through CEC reports. This section also identifies areas of concern that were not assessed by previous investigations.

- Analytical results from soil samples B1-070227S-2 and B1-070227-S-7 (as shown in Tables 1 and 2 in the initial independent cleanup report [CEC, 2009]) indicated that GROs, diesel-range organics (DROs), polycyclic aromatic hydrocarbons (PAHs), and/or metals were present above MTCA Method A CULs. However, there is conflicting information on the locations of the B1 samples. Previous reports indicated that the samples may have been related to: (1) a boring associated with magnetic anomaly M1; (2) samples associated with the south wall of the potential UST pit located south of the shop; and (3) a boring B1 located in the northwest corner of the log storage area. Because of the inconsistencies, these areas of concern were investigated during the 2011 assessment.

- Surficial soils (within the top 1 to 2 feet below ground surface [bgs]) in areas with high traffic and historical storage have not been previously characterized. Because of surficial impacts in other areas of the Property, it is possible that contaminants could have been tracked to the log storage area or equipment could have leaked.
- Three locations showed evidence of fill activities. These areas were at the southwestern property corner, in the central location east of the mill area, and west of the aggregate recycling area. The aggregate recycling area had been sampled before, but the other fill areas had not been previously investigated.
- The mill area comprises most of the central and southern portions of the Property. Laboratory results from soil collected in the mill operation area reported elevated concentrations of GROs, DROs, residual-range organics (RROs), VOCs, and metals. Exposed soil and a catch basin receiving overland flow from this area had not been evaluated.
- The aggregate recycling area is located in the southeastern corner of the Property; historical environmental documents indicate that this area may have been filled with refuse, including mill operations equipment, vehicles, and/or electrical transformers. As shown in Figure 3, historical samples collected from test pits TP11, TP12, and TP13 contained PCBs, PAHs, and metals above MTCA Method A CULs.
- An open pit reportedly used for stormwater infiltration appears to receive stormwater from the north log storage area and overland flow from the petroleum storage area.
- Overfilling of the log pond with stormwater and logs has reportedly caused the water to overflow. The log pond sediments and surface water are impacted and therefore could result in surface soil impacts south of the log pond.
- There is a stormwater outfall to the Columbia River (see Figure 2). Historical stormwater samples collected from the outfall receiving stormwater from the mill were impacted by turbidity, oil and grease, zinc, and biological oxygen demand above action levels.
- Six groundwater monitoring wells were present on the Property. Groundwater samples historically have been analyzed for VOCs and metals. Analysis had not been conducted for other chemicals detected on the Property, such as petroleum hydrocarbons.

- Sediments and surface water in the log pond. Log pond sediments and surface water samples contained detectable metals, GROs, DROs, VOCs, PAHs, and/or semivolatile organic compounds (SVOCs). The groundwater between the log pond and the Columbia River had been analyzed through reconnaissance sampling but not for all chemicals of interest.

2.5.1 Indicator Hazardous Substances

The 2006 through 2009 sample results were compared with MTCA Method A CULs for unrestricted use. CEC also compared sample results to U.S. Environmental Protection Agency (USEPA) Region VI screening levels (SLs) when no MTCA Method A value was available. Detections were all significantly below USEPA Region VI SLs. The following indicator hazardous substances (IHSs) in soil were identified as having exceeded CULs at one or more locations:

- Petroleum hydrocarbons: GROs, DROs and RROs
- PCBs
- Metals: lead and mercury
- PAHs: benzo(a)pyrene, naphthalene, 1- and 2-methylnaphthalene, and carcinogenic polycyclic aromatic hydrocarbons (cPAHs) toxicity equivalent concentrations (TEC)
- VOCs: benzene, ethylbenzene, methylene chloride, tetrachloroethene, and xylene

The following IHSs were identified for water (i.e., groundwater and surface water) after review of log pond surface water and groundwater monitoring well sample results. Sample results from these areas were compared to MTCA Method A CULs:

- Petroleum hydrocarbons: GROs, DROs, and RROs
- PAHs: naphthalene
- Metals: arsenic

All of the IHSs are from log pond surface water sample results. Note that arsenic, cadmium, and lead concentrations in some reconnaissance boring groundwater samples exceeded MTCA Method A CULs; however, these are believed to be the result of high turbidity and are not representative of groundwater on the Property.

2.6 Geology and Hydrogeology

The Property is located on Quaternary alluvial deposits composed of coarse-grained outwash deposits (gravel, cobbles, boulders) from the Missoula Floods. These deposits were observed in boring and test pit log depths of up to 45 feet bgs, as discussed in the 2009 independent cleanup and remedial action report (CEC, 2009). The 2009 boring logs also indicated that local fill deposits of up to 6 feet bgs were observed throughout the Property. The fill deposits included construction debris, wood fragments, metal fragments, metal equipment, and glass. These fill deposits were at times intermixed with the local material.

3 FIELD AND ANALYTICAL METHODS

The site assessment was broken into two phases. The first phase of soil investigation and groundwater sample collection was conducted in September 2011. This first phase focused on assessing data gaps associated with the areas of concern mentioned above. The data gaps are summarized below:

- Open Pit—the pit received stormwater drainage from the petroleum product storage area and lumber storage area.
- Soil stockpiles—Three stockpiles of unknown content were assessed.
- Planer Building—Paint storage and staining were observed on north and south side and inside of the building.
- Debarker—Surficial staining may have been present from equipment or fire.
- High Traffic and Storage Areas—Surface areas may be surficially impacted from equipment storage or tracking by vehicle traffic.
- Fill Areas—Fill areas in the southwestern corner and central portion near the mill identified during Phase I ESA. Contents and boundaries had not been defined.
- B-1, M1, and Potential UST Pit (south side)—Discrepancy between data tables and figures in 2009 independent cleanup report (CEC, 2009). Sample collected at 2.0 and 7.0 feet bgs contained VOCs, PAHs, GROs, and/or DROs above MTCA Method A CULs.
- Petroleum Storage Area—Surficial soil staining observed during previous investigations and site visits.
- Aggregate Recycling Area—Area where concrete was crushed and used as fill. Historical samples from TP10, TP11, TP12, and TP13 containing PAHs, PCBs, and metals above MTCA Method A CULs. Impacts were not delineated.

- High Traffic / Storage Areas / Aggregate Recycling Area—Areas may be surficially impacted from equipment storage or high traffic; in addition, western extent of the Aggregate Recycling Area not delineated.
- Log Pond Overflow—Overflow of the log pond onto surrounding soil.
- Mill—Surface soil collected from in and around mill contained VOCs, metals, DRO, and RRO greater than MTCA Method A CULs; PAHS and some PCBs were not analyzed.
- Columbia River Sediment—Sediments may have been affected by operations on the Property.
- Groundwater—Groundwater samples from monitoring wells had been analyzed only for metals and VOCs, and had not been analyzed for other chemicals found in soil on the Property.

The second phase of the site investigation included further evaluation of the lateral and vertical extent of IHS impacts to soil, based on analytical results from the first phase and installation and sampling of a new groundwater monitoring well (MW-7). The second phase of the site investigation was conducted in October 2011.

The field and analytical methods are described further below. Figure 4 shows all sample locations. Table 1 summarizes samples collected and analyses conducted during the 2011 site investigation.

3.1 Soil Sampling

A summary of soil sample locations, depth and date collected, analysis, and data gaps addressed is presented in Table 1. Twenty-nine test pits were dug with an excavator or by hand from ground surface up to 15 feet bgs (see Figure 4 for sample locations). Boring logs are provided in Appendix A. Twenty-four surface samples, generally from between the surface and 1.5 feet bgs, were collected using hand tools or by excavator. Soil samples from test pits were collected from 0.5 to 10 feet bgs, depending on the data objective.

The stockpile samples (samples SP-1, SP-2, and SP-3) consisted of three subsample aliquots from each stockpile, composited in a clean stainless steel bowl.

The samples were selected for analysis, based on observed impacts, on elevated head-space readings collected with a photoionization detector,

and/or on information from the previous investigations. Tables 1 through 4 summarize soil samples submitted for analysis.

Soil samples were analyzed for chemicals by the following methods:

- GROs by Method NWTPH-Gx with USEPA 5035 sample preparation
- DROs and RROs by Method NWTPH-Dx
- VOCs by USEPA Method 8260B with USEPA Method 5035 sample preparation
- PAHs by USEPA Method 82070C SIM
- Metals by USEPA Method 6020
- PCBs by USEPA Method 8082

3.2 Columbia River Sediment Sampling

On September 7, 2011, MFA personnel collected four discrete sediment samples from between the mudline to 10 centimeters below the mudline in the Columbia River immediately adjacent to the Property (see Figure 5). Samples were collected using a mini-PONAR grab sampler from the Property dock and shoreline. Before sampling, the PONAR sampler had been decontaminated following industry standard methods. Samples were transferred from the PONAR sampler to a decontaminated stainless steel sampling bowl and the sediments were homogenized. Sediments were then transferred into laboratory-supplied sampling containers before being placed on ice for shipment to the analytical laboratory. The sediment was analyzed for the following, as summarized on Tables 1 and 5:

- Total solids by USEPA Method 2216
- Total organic carbon by USEPA Southwest Method 9060
- Grain size preparation by ASTM D421 and analysis by ASTM D422
- DROs and RROs by Northwest Method NWTPH-Dx
- VOCs by USEPA Method 8260B with 5035 sample preparation
- PAHs by USEPA Method 82070C SIM
- SVOCs by USEPA Method 8270C
- Metals by USEPA Method 6020
- PCBs by USEPA 8082

3.3 Groundwater Sampling

MFA collected groundwater samples from six existing on-site wells at intervals ranging from 30 to 42 feet bgs. Before sampling, the existing monitoring wells (MW-2 through MW-6; see Figure 6) were redeveloped using a Waterra pump. A groundwater sample was collected once groundwater parameters stabilized. Groundwater sampling data sheets are provided in Appendix B. The groundwater samples were collected from existing monitoring wells on September 6 and September 7, 2011.

As stated above in Section 3.0, a groundwater monitoring well (MW-7) was installed on October 27, 2011, between the log pond and the Columbia River to determine if impacts to the log pond were infiltrating to groundwater. The monitoring well was installed at a depth 36 feet bgs, with a 15-foot screen installed between 21 and 36 feet bgs. The well was developed on October 28, 2011, by purging with a Waterra pump until groundwater turbidity measurements were 82.51 nephelometric turbidity units. Over 160 gallons of water was purged before sampling.

Table 6 shows a summary of the groundwater samples collected and the analyses conducted. All groundwater samples were analyzed for GROs by NWTPH-Gx; for DROs and RROs by NWTPH-Dx; and for metals by USEPA Method 6020. The sample from MW-4, which showed petroleum hydrocarbons detections, was also analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by USEPA Method 8260B and for PAHs by USEPA Method 8270C SIM. Because of the proximity to the log pond (see Appendix C for historical log pond analytical data), the groundwater sample collected between the log pond and the Columbia River from MW-7 was also analyzed for SVOCs and VOCs by USEPA Methods 8270C and 8260B, respectively.

4 CONCEPTUAL SITE MODEL

The conceptual site model describes potential chemical sources, release mechanisms, environmental transport processes, exposure routes, and receptors. The primary purpose of the conceptual site model is to describe pathways by which human and ecological receptors could be exposed to site-related chemicals. A complete exposure pathway consists of four necessary elements: (1) a source and mechanism of chemical release to the environment, (2) an environmental transport medium for a released chemical, (3) a point of potential contact with the impacted medium (referred to as the exposure point), and (4) an exposure route (e.g., soil ingestion) at the exposure point. Elements of potentially complete exposure scenarios for human health and ecological receptors are discussed below and are presented in Figure 7.

4.1 Source Characterization

The Property was used as a lumber mill from approximately 1948 to November 2011. The chemicals of concern on the Property were related mainly to petroleum hydrocarbons. There are no known continuing sources of hazardous-substance releases at the Property. Based on previous investigations, the sources of the contaminants are most likely from surface releases from former site operations, dumping of materials in the aggregate recycling area as fill, and stockpiles. Surface releases from site operations most likely discharged into surface soil and the log pond. Infiltration from the log pond appears to have impacted localized groundwater between the log pond and the Columbia River.

4.2 Fate and Transport of Contaminants

The primary mechanisms likely to influence the fate and transport of chemicals at the Property include natural biodegradation of organic chemicals, sorption to soil, advection and dispersion in groundwater, and leaching of chemicals from soil to groundwater. The relative importance of these processes will vary, depending on the chemical and physical properties of a released contaminant. The properties of soil and the dynamics of groundwater flow also shape contaminant fate and transport.

Most of the Property is unpaved, with localized pavement around the mill and shop area. Chemicals with relatively high solubility could leach from soil to pore water, and dissolved chemicals could be transported downward to local groundwater. However, based on groundwater results, it appears that

this does not occur at a significant rate. The log pond collects and holds surface water, which could create a localized area where the artificial head drives contaminants to depth. Once in groundwater, dissolved contaminants could be transported by diffusion and advection away from the original source. Dispersion, retardation, and biodegradation act to reduce dissolved concentrations of chemicals in groundwater downgradient of the source area.

4.3 Potential Soil Exposure Scenarios

The Property is currently vacant and was formerly used for industrial purposes. It is likely that in the future the Property will be used for commercial purposes. The Property could be used for numerous commercial and recreational activities, which could potentially include ground floor commercial with retail, restaurants and lodging; and service industries, among other types of commercial use. Portions of the Property may be developed as a park to access the river. Therefore, it is possible that construction workers, commercial workers, and recreationists will occupy the Property at some time in the foreseeable future.

The following future pathways are potentially complete human health exposure pathways:

On-site commercial workers—Commercial workers could occupy the Property in the future. It is assumed that future workers could contact chemicals in the top 15 feet of the current ground surface.

The pathways by which future workers could potentially be exposed to chemicals in soil include direct skin contact with soil, incidental ingestion of soil, and inhalation of soil particulates.

On-site construction workers—There are currently no construction workers (e.g., excavation workers, trench workers) on the Property. However, construction activities will likely be performed as part of property redevelopment. Construction workers could contact chemicals in soil through incidental ingestion, dermal contact, and inhalation of impacted soil particulates.

On-site recreational users—Future development may include recreational uses. The pathways by which a future recreational user could potentially be exposed to chemicals in surface soil include incidental ingestion, dermal contact, or inhalation of soil particulates.

4.4 Potential Groundwater Exposure Scenarios

The depth to groundwater occurs between approximately 20 and 37 feet bgs, and flows toward and is assumed to discharge to the Columbia River.

Groundwater impacts were limited to petroleum hydrocarbons near the log pond. Groundwater is not used on the Property. There are no surface water SLs for petroleum hydrocarbons. There is very little likelihood of human or ecological exposure to groundwater beneath the Property.

To ensure that groundwater will not be used in the future, a restrictive covenant on groundwater use could be put in place for the Property. However, it is likely that the petroleum hydrocarbon levels will decrease after the log pond (a likely source of groundwater impacts) is remediated.

4.5 Cleanup Standards

According to MTCA, the cleanup standards for a particular site have two primary components: chemical-specific CULs and points of compliance (POCs). The CUL is the concentration of a chemical in a specific environmental medium that will not pose unacceptable risks to human health or the environment. The POC is the location where the CUL must be met.

4.5.1 Soil Cleanup Levels

MTCA provides three different options for establishing CULs for human health: Method A, Method B, and Method C. For Methods B and C, either the standard or the modified approach can be used. The standard method uses generic default assumptions to calculate CULs, and the modified method allows for site-specific adjustments to some assumptions when calculating CULs.

MTCA Method A is designed for cleanups at relatively simple sites, such as those that are small and that have only a few hazardous substances. Method B can be used at any site. Method C is used primarily for industrial sites.

The Property historically has been used for industrial purposes but it is anticipated that it will be used for commercial purposes in the future. The Property is impacted mainly with petroleum hydrocarbons and their constituents. The impacts appear to be limited in extent. Therefore, with few exceptions, Method A CULs for unrestricted land use are applied to soil and groundwater as the CULs for the site.

These CULs are calculated using reasonable maximum human health exposure assumptions with target risk levels set at the MTCA acceptable risk level. The MTCA Method A direct-contact CUL for hexavalent chromium is below natural background concentrations in soil. The species of the chromium detected at the site is unknown. Therefore, the natural background concentration of total chromium in Western Washington of 47.4 milligrams per kilogram (mg/kg) (Ecology, 1994) is used as the CUL. In

addition VOCs and PAHs for which Method A CULs are not available were compared to Method B CULs.

Soil CULs for the protection of potable groundwater (leaching to groundwater pathway) are not recommended as potential cleanup targets for soil on the Property because empirical evidence indicates that soil impacts are not causing unacceptable groundwater concentrations.

4.5.1.1 Points of Compliance in Soil

The soil POC is the depth bgs at which soil CULs shall be attained. The standard POC for Method A is soil within 15 feet of the ground surface throughout the entire site. This standard POC is applied to soil on the Property. As discussed below, impacts have not been detected in soil below approximately 4 feet bgs.

4.5.2 Groundwater Cleanup Levels

Method A CULs are considered applicable for most chemicals because of site simplicity (e.g., relatively few hazardous substances).

4.5.2.1 Points of Compliance in Groundwater

The POC for groundwater is the entire water-bearing zone at the Property (Washington Administrative Code [WAC] 173-340-720(8)(b)). A conditional POC may be established if it is not practicable to meet the CUL throughout the site within a reasonable restoration time frame (WAC 173-340-720(8)(c)). The proposed conditional POC for groundwater is located in MW-7 at the top of the bank, downgradient of the log pond, along the boundary with the Columbia River.

5 RISK SCREENING

IHSs are evaluated below by comparing the concentrations found in soil, groundwater, and sediment to human health and ecological SLs. The data set evaluated includes data collected by MFA in 2011 (included in the discussion below).

The 2011 laboratory analytical results for soil, sediment, and groundwater are included in Appendix D. Appendix E contains the data validation memorandum. All analytical results were evaluated according to applicable sections of USEPA procedures and appropriate laboratory and method-specific guidelines. The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned.

5.1 Soil

Soil concentrations were compared with MTCA Method A CULs and natural background concentrations (see Tables 2 through 4). Chemicals with detections and no MTCA Method A CULs were compared to MTCA Method B CULs. Those chemical concentrations were significantly lower than the MTCA Method B CULs. The nature and extent of these chemicals are described below.

- GRO and DRO concentrations did not exceed MTCA Method A CULs. RROs were detected in soil samples but were below MTCA Method A CULs, except for one sample. RRO concentrations exceeded the Method A CUL of 2,000 mg/kg in the surface soil sample from TP-25, just south of the log pond (see Table 2 and Figure 4). The RRO exceedance was limited to the surface soil sample, as the concentration decreased with depth in TP-25.
- VOCs were not detected above CULs (see Table 3).
- PAHs were not detected above CULs, except in two samples (see Table 4). Both noncarcinogenic and carcinogenic chemicals were analyzed for PAHs. The PAHs classified as cPAHs include benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene. WAC 173-340-708(8) requires that the cPAHs be considered a single hazardous substance and be evaluated using the cPAH total TEC. The cPAH total TEC was

calculated by summing individual TECs for detected cPAHs; for non-detect cPAHs, TECs were calculated using half the method reporting limit. A composite stockpile sample (SP-02) (0.327 mg/kg) located by the Aggregate Recycling Area and TP-23 in a surface soil sample (0.130 mg/kg) south of the log pond detected cPAHs above the Method A CUL of 0.1 mg/kg. Results indicate that cPAH exceedance in TP-23 is limited to the surface soil.

- PCBs generally were not detected above CULs; however, two samples in the aggregate recycling area (TP-16 surface soil and TP-17 at 4 feet bgs) detected PCBs at total levels that exceeded the Method A CUL of 1.0 mg/kg.
- Metals detections did not exceed CULs or natural background concentrations except for lead and mercury. Lead was detected in two locations (three samples) in the aggregate recycling area above CULs. Lead exceedances were in soil samples near the surface and 4.0 feet bgs. Lead detections did not exceed the CUL below 4.0 feet bgs.

Two mercury detections exceeded the Method A CUL of 2 mg/kg. One sample was from TP-16 at 4 feet bgs (9.53 mg/kg), but concentrations were below CULs in the samples above and below. The other mercury exceedance was in TP-29 surface soil (mg/kg) in the mill area, but a sample at 3.0 feet bgs in TP-29 did not exceed the CUL.

In summary, some concentrations of RROs, lead, mercury, PCBs, and cPAHs are above CULs in a few soil samples near former source areas (log pond overfill area, mill, aggregate recycling area, and a stockpile). The extent of IHS contamination in subsurface soil by the log pond and mill is generally limited to surface soil. Impacts in the aggregate recycling area extend from the surface to approximately 4 feet bgs and are not present by 10.0 feet bgs. Note that fill in the aggregate area extends to approximately 7.0 feet bgs.

As stated above in Section 2.5, historical samples collected in 2006 through 2009 indicated that IHSs were present in surface soil near the mill, soil within the top 4 feet bgs in the aggregate recycling area, and soil within the upper 4 feet bgs at the log pond. Based on our current sampling, chemicals exceeding CULs remain in these areas.

5.2 Columbia River Sediment

Four sediment samples collected from the Columbia River are summarized in Table 5 and compared to Ecology 2010 Freshwater Criteria. They were

compared primarily to the Sediment Quality Standards and the Cleanup Screening Level Standard. If no values were available, the data were compared to the Ecology 2003 Freshwater Criteria lowest and second lowest apparent effects threshold (LAET and 2LAET, respectively). No sediment detections exceeded SLs.

Note that one of the sediment samples was collected just beyond the outfall for the Property.

5.3 Groundwater

Historical groundwater sampling indicates that VOCs and metals have not impacted groundwater. Groundwater analytical results from 2011 are summarized in Table 6. Groundwater monitoring wells are identified on Figure 6. All groundwater samples were compared with Method A CULs. The nature and extent of chemicals that exceed CULs are described below.

- Petroleum hydrocarbons were not detected in groundwater samples, except from MW-4 and MW-7. The sample from MW-7 exceeded Method A CULs for DROs and RROs at 588 and 591 micrograms per liter ($\mu\text{g/L}$), respectively. MW-7 is downgradient of the log pond.
- Analysis for VOCs was conducted on the sample from MW-7 and only two compounds were detected, but these were well below their respective Method A CULs. Analysis for BTEX constituents was conducted on the sample from MW-4 because DROs were detected in the sample. However, BTEX were not detected in the groundwater sample from MW-4.
- Analysis for SVOCs was conducted on the samples from MW-7, based on historical detections in the log pond. No SVOCs were present above detection levels in the 2011 samples.
- Analysis for PAHs was conducted on the MW-7 sample because of the petroleum hydrocarbon detections; however, cPAHs were not detected. Phenanthrene was detected in MW-7, but no CULs are associated with it.
- Metals were not detected at or below CULs except for arsenic in the groundwater sample from MW-7. Total arsenic was detected in MW-7 at $5.56 \mu\text{g/L}$, which is slightly above the Method A CUL of $5 \mu\text{g/L}$. The sample was also analyzed for dissolved arsenic because the sample had high turbidity. Dissolved arsenic was detected at $4.15 \mu\text{g/L}$, below the Method A CUL. The

discrepancy between the total and dissolved arsenic concentrations appears to be due to the elevated turbidity in the sample.

DROs and RROs are considered IHSs in groundwater located between the log pond and the Columbia River in MW-7. The concentrations may have been elevated because of high turbidity levels observed during sampling.

As stated above in Section 2.5, historical samples collected in 2006 indicated that IHSs are present in log pond surface water at concentrations above CULs.

5.4 Summary

In general, concentrations of IHSs in soil are above CULs in former source areas (log pond sediment, log pond overflow, mill, and aggregate recycling areas) and in one of the stockpiles. Generally, groundwater appears not to be impacted, except for slight petroleum hydrocarbon exceedance near the log pond. Surface water in the log pond exceeded CULs historically. No IHSs associated with the Columbia River sediments were identified.

6 CLEANUP ACTION EVALUATION

This section summarizes two remedial alternatives for addressing the contamination identified on the site. These alternatives are not all-inclusive, but represent the most likely cleanup scenarios and encompass a range from highly extensive to limited remedial actions. Depending on the configuration of the development of the Property, additional cleanup alternatives could be developed and evaluated.

6.1 Alternative 1: Excavation and Off-site Disposal of Contaminated Soil and Log Pond Sediment

Alternative 1 is the most conservative and costly, and includes the following actions:

- Log Pond
 - Remove (i.e., pump out) log pond liquid, characterize, and dispose of off site at a permitted disposal facility. For cost estimating purposes, the volume of liquid in the log pond is estimated to be approximately 330,000 gallons (the actual volume will vary, depending on the season and amount of precipitation occurring during the remedial action).
 - Excavate impacted log pond sediment to 4 feet bgs (3,300 cubic yards), characterize, and dispose of off site at a permitted disposal facility. For cost estimating purposes and based on the sediment samples collected during the 2009 site investigation, the sediment is assumed to be nonhazardous and not special-listed waste, and disposal at a Subtitle D landfill is also assumed.
 - Backfill log pond with clean, imported fill to existing ground surface and compact to 92 percent compaction, based on the Modified Proctor Test (ASTM D-1557).
- Mill Area
 - Demolish concrete slab to facilitate excavation of underlying impacted soil. The slab is assumed to be reinforced and 12 inches thick.

- Excavate impacted soil to 2 feet bgs (930 cubic yards) and screen on site. The oversize, inert debris and rocks will be placed back in the excavation, while the material that passes through the screen will be characterized and disposed of off site at a permitted disposal facility. For cost estimating purposes, 10 percent of the excavated material was assumed to be oversize and suitable for placement in the bottom of the remedial excavation. Based on soil samples collected the soil is assumed to be nonhazardous and not special-listed waste, and disposal at a Subtitle D landfill is also assumed.
- Aggregate Recycling Area
 - Screen the impacted material stockpiled in the aggregate recycling area (approximately 500 cubic yards). The oversize, inert debris and rocks will be placed back in the excavation, while the material that passes through the screen will be characterized and disposed of off-site at a permitted disposal facility. For cost estimating purposes, 10 percent of the excavated material was assumed to be oversize and suitable for placement in the bottom of the remedial excavation. Based on soil samples collected during the site investigation, the soil is assumed to be non-hazardous and not special-listed waste and may be disposed of at a Subtitle D Landfill.
 - Excavate impacted soil to 7 feet bgs (4,870 cubic yards) and screen on site. The oversize, inert debris and rocks will be placed back in the excavation, while the material that passes through the screen will be characterized and disposed of off site at a permitted disposal facility. For cost estimating purposes, 10 percent of the excavated material was assumed to be oversize and suitable for placement in the bottom of the remedial excavation. Based on soil samples collected during the site investigation, the soil is assumed to be nonhazardous and not special-listed waste, and disposal at a Subtitle D landfill is also assumed.
- Groundwater
 - Employ a restrictive covenant prohibiting the use of groundwater beneath the Property as potable water.

The estimated cost for this alternative is presented in Table 7 following this report. The estimated cost for alternative 1 is \$1,436,010.

6.2 Alternative 2: Capping and Institutional Controls

Alternative 2 is less costly than alternative 1 and focuses on on-site soil management and capping. Alternative 2 includes the following actions:

- Log Pond
 - Remove (i.e., pump out) log pond liquid, characterize, and dispose of off site at a permitted disposal facility. For cost estimating purposes, the volume of liquid in the log pond is estimated to be approximately 330,000 gallons (the actual volume will vary, depending on the season and amount of precipitation occurring during the remedial action).
 - Consolidate the impacted material stockpiled on site (500 cubic yards) in the log pond and backfill the log pond with unimpacted material stockpiled on site (2,840 cubic yards) and imported backfill (3,180 cubic yards).
- Soil Cap
 - Cap log pond, mill area, and aggregate recycling area with a minimum of 2 feet of clean, imported backfill.¹ Soil cap includes a geotextile demarcation layer and placement of 4,340 cubic yards of clean soil.
 - Implement institutional controls regarding future use of the site. A soil management plan would be developed to outline procedures for maintaining the cap and handling impacted soils during potential future excavation.
- Groundwater
 - Employ a restrictive covenant prohibiting the use of groundwater beneath the site as potable water.

The estimated cost for alternative 2 is presented in Table 8 following this report. The estimated cost for alternative 2 is \$439,030.

¹ A 2-foot soil cap may be replaced with a minimum of 6 inches of aggregate base course and 3 inches of asphalt.

LIMITATIONS

The services undertaken in completing this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

REFERENCES

CEC and Evren. 2006. Phase I Environmental Site Assessment (ESA). Prepared for Hambleton Lumber Company. Prepared by Certified Environmental Consultants, Inc., Vancouver, Washington, and Evren Northwest, Inc., Portland Oregon. July 13.

CEC and Evren. 2008. Preliminary Work Plan for Log Pond Decommissioning. Prepared for Hambleton Lumber Company. Prepared by Certified Environmental Consultants, Inc., Vancouver, Washington, and Evren Northwest, Inc., Portland Oregon. August 8.

CEC and Erven. 2009. DRAFT Initial Independent Cleanup Report and Risk Assessment. Prepared for Hambleton Lumber Company. Prepared by Certified Environmental Consultants, Inc., Vancouver, Washington, and Evren Northwest, Inc., Portland Oregon. October 16.

Ecology. 1994. Natural background soil metals concentrations in Washington State. Publication 94-115. Washington State Department of Ecology, Toxics Cleanup Program. October.

TABLES



Table Notes for Data Summaries and Cleanup Levels Former Hambleton Lumber Site Washougal, Washington

-- = not available.

> = value indicates that toxic level is unknown but is above the concentration shown.

bgs = below ground surface.

Bold = values exceed screening criteria.

cm = centimeter(s).

COC = contaminant of concern.

cPAH = carcinogenic PAH, per WAC 173-340-900.

CUL = cleanup level.

DET = detected above laboratory detection limits.

DRO = diesel-range organics.

Ecology = Washington State Department of Ecology.

ESA = environmental site assessment.

ft = feet.

GRO = gasoline-range organics.

HCID = hydrocarbon identification.

HPAH = high-molecular-weight PAH.

IHS = indicator hazardous substance.

J = estimated concentration.

LPAH = low-molecular-weight PAH.

mg/kg = milligrams per kilogram.

mg/L = milligrams per liter.

MTCA = Model Toxics Control Act.

mV = millivolt.

µg/L = micrograms per liter.

µS/cm = microsiemens per centimeter.

NA = not analyzed.

ND = not detected.

NTU = nephelometric turbidity unit.

NV = no value.

PAH = polycyclic aromatic hydrocarbon.

PCB = polychlorinated biphenyl.

RRO = residual-range organics.

SVOC = semivolatile organic compound.

TCLP = toxicity characteristic leaching procedure.

TEC = toxicity equivalent concentration.

TOC = total organic carbon.

TPH = total petroleum hydrocarbons.

U = analyte not detected at or above method reporting limit (MRL). MRL value is posted unless noted otherwise.

UJ = not detected at or above estimated MRL.

UR = not detected at or above rejected MRL.

UST = underground storage tank.

VOC = volatile organic compound.

WAC = Washington Administrative Code.

wt% = percent by weight.

^aWashington State background concentration for upper 90th percentile for Western Washington.

^bWashington MTCA Method B used if no MTCA Method A value available.

Table 1
Soil Sample and Analysis Summary
Former Hambleton Lumber Mill
Washougal, Washington

Area	Matrix	Sample Name	Start Depth (ft bgs)	End Depth (ft bgs)	Sample Date	Historical Data Gap	IHSs/COCs Analyzed								
							Metals	PCBs	VOCs	TPH	DRO/RRO	GRO	PAHs	SVOCs	Grain size, total solids, TOC
Open Pit	Soil	OPEN PIT 1-S-20.5	20.5	21.5	09/15/2011	Receives stormwater from petroleum product storage area and lumber storage.	x	x					x		
Stockpiles	Soil	SP-1	0.3	0.8	09/08/2011	Three stockpiles of unknown content.	x	x		x	x		x		
	Soil	SP-2	0.3	0.8	09/08/2011		x	x		x	x		x		
	Soil	SP-3	0.3	0.8	09/08/2011		x	x		x	x		x		
Planer Building	Soil	SS-5-1	0.5	1.5	09/07/2011	Paint and staining observed on north and south side and inside of building.	x				x				
	Soil	SS-6-1	0.5	1.5	09/07/2011		x				x				
	Soil	SS-7-1	0.5	1.5	09/07/2011		x				x				
Debarker	Soil	SS-15-1	0.5	1.5	09/07/2011	Surficial staining may have been caused by equipment.					x				
	Soil	SS-16-1	0.5	1.5	09/07/2011		x				x		x		
	Soil	SS-17-1	0.5	1.5	09/07/2011						x				
	Soil	SS-18-1	0.5	1.5	09/07/2011						x				
	Soil	SS-19-1	0.5	1.5	09/07/2011						x				
	Soil	SS-20-1	0.5	1.5	09/07/2011		x				x				
High Traffic / Storage Areas	Soil	SS-10-1	0.5	1.5	09/07/2011	Surface areas may be surficially impacted from equipment storage or high traffic.	x				x				
	Soil	SS-11-2	1.5	2.5	09/07/2011		x				x		x		
	Soil	SS-12-1	0.5	1.5	09/07/2011		x				x				
	Soil	SS-13-1	0.5	1.5	09/07/2011		x				x				
	Soil	SS-2-1.5	1.0	2.0	09/06/2011		x		x		x				
	Soil	SS-3-1	0.5	1.5	09/07/2011		x				x				
	Soil	SS-4-1	0.5	1.5	09/07/2011		x				x				
	Soil	SS-8-1	0.5	1.5	09/07/2011		x		x		x				
	Soil	SS-9-1	0.5	1.5	09/07/2011		x				x				
	Soil	SS-1-1.5	1.0	2.0	09/06/2011		x				x		x		

Table 1
Soil Sample and Analysis Summary
Former Hambleton Lumber Mill
Washougal, Washington

Area	Matrix	Sample Name	Start Depth (ft bgs)	End Depth (ft bgs)	Sample Date	Historical Data Gap	IHSs/COCs Analyzed								
							Metals	PCBs	VOCs	TPH	DRO/RRO	GRO	PAHs	SVOCs	Grain size, total solids, TOC
Fill Area	Soil	TP-1-3	2.8	3.3	09/06/2011	Fill areas identified during Phase I ESA. Contents and boundaries have not been defined.		x		x	x		x		
	Soil	TP-2-3.5	2.0	5.0	09/06/2011			x		x			x		
	Soil	TP-3-3	2.8	3.3	09/06/2011			x		x			x		
	Soil	TP-4-3	2.0	4.5	09/06/2011		x	x		x			x		
	Soil	TP-5-8	3.0	13.0	09/06/2011		x	x		x	x		x		
	Soil	TP-6-8	3.0	13.0	09/06/2011			x		x	x		x		
B-1 , M1, and Potential UST Pit (south side)	Soil	TP-10-2	1.8	2.3	09/07/2011	Discrepancy between data tables and figures in 2009 independent cleanup report. Samples collected at 2 and 7 ft bgs contained VOCs, PAHs, GRO, and DRO above MTCA Method A CULs.	x				x	x	x		
	Soil	TP-10-7	6.8	7.3	09/07/2011		x				x	x	x		
	Soil	TP-11-2	1.8	2.3	09/07/2011		x				x	x	x		
	Soil	TP-11-7	6.8	7.3	09/07/2011		x				x	x	x		
	Soil	TP-9-2	1.8	2.3	09/07/2011		x				x	x	x		
	Soil	TP-9-7	6.8	7.3	09/07/2011		x				x	x	x		
Petroleum Storage Area	Soil	SS-14-1	0.5	1.5	09/07/2011	Surficial soil staining observed during previous investigations and site visits.	x		x		x	x			
	Soil	TP-12-S-1.0	0.8	1.3	10/27/2011		x		x		x				
	Soil	TP-13-S-1.0	0.8	1.3	10/27/2011		x		x		x				
	Soil	TP-14-S-1.0	0.8	1.3	10/27/2011		x		x		x				
	Soil	TP-15-S-1.0	0.8	1.3	10/27/2011		x		x		x				

Table 1
Soil Sample and Analysis Summary
Former Hambleton Lumber Mill
Washougal, Washington

							IHSs/COCs Analyzed								
Area	Matrix	Sample Name	Start Depth (ft bgs)	End Depth (ft bgs)	Sample Date	Historical Data Gap	Metals	PCBs	VOCs	TPH	DRO/RRO	GRO	PAHs	SVOCs	Grain size, total solids, TOC
Aggregate Recycling Area	Soil	TP-16-S-1.5	1.3	1.8	10/27/2011	Area where concrete was crushed and filled. Historical samples from TP10, TP11, TP12, and TP13 containing PAHs, PCBs, and metals above MTCA Method A CULs. Impacts not delineated.	x	x					x		
	Soil	TP-16-S-10.0	9.8	10.3	10/27/2011		x	x					x		
	Soil	TP-16-S-4.0	3.8	4.3	10/27/2011		x	x					x		
	Soil	TP-17-S-1.5	1.3	1.8	10/27/2011		x	x					x		
	Soil	TP-17-S-10.0	10.3	10.3	10/27/2011		x	x					x		
	Soil	TP-17-S-4.0	3.8	4.3	10/27/2011		x	x					x		
	Soil	TP-18-S-4.0	3.8	4.3	10/27/2011		x	x					x		
	Soil	TP-19-S-1.5	1.3	1.8	10/28/2011		x	x					x		
	Soil	TP-19-S-3.5	3.3	3.3	10/28/2011		x	x					x		
	Soil	TP-19-S-6.0	5.8	6.3	10/28/2011		x	x					x		
	Soil	TP-20-S-10.0	9.8	10.3	10/28/2011			x							
	Soil	TP-20-S-4.0	3.8	4.3	10/28/2011		x	x					x		
	Soil	TP-21-S-4.0	3.8	4.3	10/28/2011		x	x					x		
	Soil	TP-22-S-1.5	1.3	1.8	10/28/2011		x	x					x		
	Soil	TP-22-S-10.0	9.8	10.3	10/28/2011		x	x					x		
	Soil	TP-22-S-3.0	2.8	3.3	10/28/2011		x	x					x		
High Traffic / Storage Areas / Aggregate Recycling Area	Soil	TP-7-2	1.0	2.0	09/06/2011	Areas may be surficially impacted from equipment storage or high traffic, and western extent of the Aggregate Recycling Area not delineated.	x				x				
	Soil	TP-8-1.5	1.0	2.5	09/06/2011		x				x				

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Soil Sample and Analysis Summary
Former Hambleton Lumber Mill
Washougal, Washington

							IHSs/COCs Analyzed								
Area	Matrix	Sample Name	Start Depth (ft bgs)	End Depth (ft bgs)	Sample Date	Historical Data Gap	Metals	PCBs	VOCs	TPH	DRO/RRO	GRO	PAHs	SVOCs	Grain size, total solids, TOC
Log Pond Overfill	Soil	SS-22-1	0.5	1.5	09/08/2011	Overfilling of log pond onto surrounding soil.	x	x	x		x	x	x		
	Soil	SS-23-1	0.5	1.5	09/08/2011		x	x	x		x	x	x		
	Soil	SS-24-1	0.5	1.5	09/08/2011		x	x	x		x	x	x		
	Soil	TP-23-S-3.0	2.8	3.3	10/28/2011		x		x		x	x	x		
	Soil	TP-24-S-1.0	0.8	1.3	10/28/2011		x		x		x	x	x		
	Soil	TP-25-S-1.0	0.8	1.3	10/28/2011		x		x		x	x	x		
	Soil	TP-25-S-3.0	2.8	3.3	10/28/2011						x				
Mill	Soil	SS-21-0.5	0.0	1.0	09/08/2011	Surface soil collected in and around mill contained VOCs, metals, DRO, and RRO greater than MTCA Method A; PAHs and some PCBs not analyzed.	x	x	x		x	x	x		
	Soil	TP-26-S-1.0	0.8	1.3	10/28/2011		x	x	x		x	x	x		
	Soil	TP-27-S-1.0	0.8	1.3	10/28/2011		x	x	x		x	x	x		
	Soil	TP-28-S-1.0	0.8	1.3	10/28/2011		x	x	x		x	x	x		
	Soil	TP-29-S-1.0	0.8	1.3	10/28/2011		x	x	x		x	x	x		
	Soil	TP-29-S-3.0	2.8	3.3	10/28/2011		x*								
Columbia River	Sediment	Sed-01	0	0.3	09/07/2011	Sediments not analyzed for impacts from on-site uses.	x	x			x		x	x	x
		Sed-02	0	0.3	09/07/2011		x	x			x		x	x	x
		Sed-03	0	0.3	09/07/2011		x	x			x		x	x	x
		Sed-04	0	0.3	09/07/2011		x	x			x		x	x	x
Monitoring Wells	Ground-water	MW-02	NA	NA	09/06/2011	Monitoring wells analyzed only for metals and VOCs.	x*				x	x			
		MW-03	NA	NA	09/06/2011		x*				x	x			
		MW-04	NA	NA	09/06/2011		x*		x*		x	x	x		
		MW-05	NA	NA	09/07/2011		x*				x	x			
		MW-06	NA	NA	09/07/2011		x*				x	x			
		MW-07	NA	NA	10/28/2011	No monitoring well between log pond and Columbia River installed or sampled.	x		x		x	x	x	x	
	*Selected analytes only.														

Table 2
Metal, Polychlorinated Biphenyl, and Petroleum Hydrocarbon Analytical Results in Soil
Former Hambleton Lumber Mill
Washougal, Washington

Area	MTCA Method A Soil CULs— Unrestricted Use	Open Pit	Stockpiles			Planer Building			Debarker			
Location		Open Pit 1	SP-01	SP-02	SP-03	SS-05	SS-06	SS-07	SS-15	SS-16	SS-17	SS-18
Date Collected		9/15/2011	9/8/2011	9/8/2011	9/8/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011
Start Depth (ft)		20	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
End Depth (ft)		21	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Metals (mg/kg)												
Arsenic	20	4.31	5.52	4.44	3.55	4.93	4.55	6.71	--	6.07	--	--
Barium	NA	213 J	76.5	70.1	65.8	214	166	230	--	234	--	--
Cadmium	2	0.118 U	0.0766 U	0.0591 U	0.0683 U	0.115 U	0.088 U	0.102 U	--	0.0823 U	--	--
Chromium	47.4 ^a	16.1 J	8.39	9.77	6.91	17.7	17.6	20.1	--	16.2	--	--
Lead	250	7.86 J	9.33	18.8	3.07	3.2	1.76 U	6.98	--	20.5	--	--
Mercury	2	0.03	0.0277	0.0104	0.0381	0.232	0.0181	0.0404	--	0.0625	--	--
Selenium	NA	2.36 U	1.53 U	1.18 U	1.37 U	2.3 U	1.76 U	2.04 U	--	1.65 U	--	--
Silver	NA	6.18	2.32	1.77	1.73	2.3 U	1.84	2.22	--	2.02	--	--
TCLP Metals (mg/L)												
Lead	NA	--	--	--	--	--	--	--	--	--	--	--
Mercury	NA	--	--	--	--	--	--	--	--	--	--	--

Table 2
Metal, Polychlorinated Biphenyl, and Petroleum Hydrocarbon Analytical Results in Soil
Former Hambleton Lumber Mill
Washougal, Washington

Area	MTCA Method A Soil CULs— Unrestricted Use	Open Pit	Stockpiles			Planer Building			Debarker			
Location		Open Pit 1	SP-01	SP-02	SP-03	SS-05	SS-06	SS-07	SS-15	SS-16	SS-17	SS-18
Date Collected		9/15/2011	9/8/2011	9/8/2011	9/8/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011
Start Depth (ft)		20	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
End Depth (ft)		21	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
PCBs (mg/kg)												
Aroclor 1016	NA	0.00042 U	0.0004 U	0.000347 U	0.00034 U	--	--	--	--	--	--	--
Aroclor 1221	NA	0.00042 U	0.0004 U	0.000347 U	0.00034 U	--	--	--	--	--	--	--
Aroclor 1232	NA	0.00042 U	0.0004 U	0.000347 U	0.00034 U	--	--	--	--	--	--	--
Aroclor 1242	NA	0.00042 U	0.0004 U	0.000347 U	0.00034 U	--	--	--	--	--	--	--
Aroclor 1248	NA	0.00042 U	0.0004 U	0.000347 U	0.00034 U	--	--	--	--	--	--	--
Aroclor 1254	NA	0.00042 U	0.0004 U	0.000347 U	0.00034 U	--	--	--	--	--	--	--
Aroclor 1260	NA	0.0202	0.0174	0.0194	0.00034 U	--	--	--	--	--	--	--
Aroclor 1262	NA	0.00042 U	0.0004 U	0.000347 U	0.00034 U	--	--	--	--	--	--	--
Aroclor 1268	NA	0.00042 U	0.0004 U	0.000347 U	0.00034 U	--	--	--	--	--	--	--
Total PCBs	1	0.0202	0.0174	0.0194	0.336 U	--	--	--	--	--	--	--
TPH (mg/kg)												
DRO	2000	--	17 U	26.7	15.2 U	20 U	18.5 U	33	18 U	17.8 U	17.1 U	146
GRO	100	--	--	--	--	--	--	--	--	--	--	--
RRO	2000	--	1010	218	164	66.7 U	61.6 U	154	60 U	59.2 U	57.1 U	382
HCIDs (mg/kg)												
DRO	NA	--	DET	ND	ND	--	--	--	--	--	--	--
GRO	NA	--	ND	ND	ND	--	--	--	--	--	--	--
Kerosene	NA	--	ND	ND	ND	--	--	--	--	--	--	--
RRO	NA	--	DET	DET	DET	--	--	--	--	--	--	--
Mineral Spirits	NA	--	ND	ND	ND	--	--	--	--	--	--	--

Table 2
Metal, Polychlorinated Biphenyl, and Petroleum Hydrocarbon Analytical Results in Soil
Former Hambleton Lumber Mill
Washougal, Washington

Area	MTCA Method A Soil CULs— Unrestricted Use	Debarker		High Traffic / Storage Areas									
Location		SS-19	SS-20	SS-01	SS-02	SS-03	SS-04	SS-08	SS-09	SS-10	SS-11	SS-12	SS-13
Date Collected		9/7/2011	9/7/2011	9/6/2011	9/6/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011
Start Depth (ft)		0.5	0.5	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.5	0.5	0.5
End Depth (ft)		1.5	1.5	2.0	2.0	1.5	1.5	1.5	1.5	1.5	2.5	1.5	1.5
Metals (mg/kg)													
Arsenic	20	--	10.7	2.06 U	2.22 U	5.89	1.42	3.75	7.36	3.37	5.37	6.61	7.3
Barium	NA	--	132	147 J	139 J	158	73.6	180	242	104	76.3	133	78.6
Cadmium	2	--	0.123 U	0.103 U	0.111 U	0.0867 U	0.0637 U	0.0819 U	0.0972 U	0.0707 U	0.107 U	0.272	0.0711 U
Chromium	47.4 ^a	--	18.3	20.2	16.9	18.2	6.02	16.4	19.9	5.94	8.28	13.7	10.7
Lead	250	--	6.36	26.9	11.4	1.73 U	4.23	2.68	6.23	3.8	7.11	42.4	5.75
Mercury	2	--	0.0226	0.0281	0.0433	0.0329	0.253	0.0247	0.0574	0.02	0.0165	0.0566	0.0222
Selenium	NA	--	2.45 U	2.06 U	2.22 U	1.73 U	1.27 U	1.64 U	1.94 U	1.41 U	2.14 U	2.17 U	1.42 U
Silver	NA	--	2.45 U	2.83	10.6	1.73 U	1.73	1.64 U	2.07	5.02	2.14 U	2.17 U	1.43
TCLP Metals (mg/L)													
Lead	NA	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	NA	--	--	--	--	--	--	--	--	--	--	--	--

Table 2
Metal, Polychlorinated Biphenyl, and Petroleum Hydrocarbon Analytical Results in Soil
Former Hambleton Lumber Mill
Washougal, Washington

Area	MTCA Method A Soil CULs— Unrestricted Use	Debarker		High Traffic / Storage Areas									
Location		SS-19	SS-20	SS-01	SS-02	SS-03	SS-04	SS-08	SS-09	SS-10	SS-11	SS-12	SS-13
Date Collected		9/7/2011	9/7/2011	9/6/2011	9/6/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011
Start Depth (ft)		0.5	0.5	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.5	0.5	0.5
End Depth (ft)		1.5	1.5	2.0	2.0	1.5	1.5	1.5	1.5	1.5	2.5	1.5	1.5
PCBs (mg/kg)													
Aroclor 1016	NA	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	NA	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	NA	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	NA	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	NA	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	NA	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	NA	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	NA	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	NA	--	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	1	--	--	--	--	--	--	--	--	--	--	--	--
TPH (mg/kg)													
DRO	2000	886	19.9 U	67.2	44.1	18.2 U	26.1	17.7 U	18.1 U	16.1 U	70.9	53.2	17.1 U
GRO	100	--	--	--	--	--	--	--	--	--	--	--	--
RRO	2000	1630	76.7	304	224	60.7 U	180	59 U	82.6	53.8 U	545	203	56.9 U
HCIDs (mg/kg)													
DRO	NA	--	--	--	--	--	--	--	--	--	--	--	--
GRO	NA	--	--	--	--	--	--	--	--	--	--	--	--
Kerosene	NA	--	--	--	--	--	--	--	--	--	--	--	--
RRO	NA	--	--	--	--	--	--	--	--	--	--	--	--
Mineral Spirits	NA	--	--	--	--	--	--	--	--	--	--	--	--

Table 2
Metal, Polychlorinated Biphenyl, and Petroleum Hydrocarbon Analytical Results in Soil
Former Hambleton Lumber Mill
Washougal, Washington

Area	MTCA Method A Soil CULs— Unrestricted Use	Fill Areas						B-1 , M1, and Potential UST Pit (south side)					
Location		TP-01	TP-02	TP-03	TP-04	TP-05	TP-06	TP-09	TP-09	TP-10	TP-10	TP-11	TP-11
Date Collected		9/6/2011	9/6/2011	9/6/2011	9/6/2011	9/6/2011	9/6/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011
Start Depth (ft)		2.8	2.0	2.8	2.0	3.0	3.0	1.8	6.8	1.8	6.8	1.8	6.8
End Depth (ft)		3.3	5.0	3.3	4.5	13.0	13.0	2.3	7.3	2.3	7.3	2.3	7.3
Metals (mg/kg)													
Arsenic	20	--	--	--	2.53	3.88 U	--	6.7	5.01	5.82	7.77	3.37	4.75
Barium	NA	--	--	--	138	186 J	--	67.4	194	255	112	83.4	173
Cadmium	2	--	--	--	0.198	0.291	--	0.11 U	0.116 U	0.109 U	0.0936 U	0.123 U	0.0987 U
Chromium	47.4 ^a	--	--	--	19.5	21.2	--	38.6	29.6	16.3	17.6	9.2	6.59
Lead	250	--	--	--	12.6	46.8	--	21	3.05	2.18 U	1.87 U	17.1	1.97 U
Mercury	2	--	--	--	0.0487 J	0.0963	--	0.0662	0.0125 U	0.0543	0.128	0.0533	0.0614
Selenium	NA	--	--	--	2.33 U	3.88 U	--	2.2 U	2.32 U	2.18 U	1.87 U	2.47 U	1.97 U
Silver	NA	--	--	--	2.33 U	3.88 U	--	2.2 U	2.32 U	2.32	2.54	2.89	5.03
TCLP Metals (mg/L)													
Lead	NA	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	NA	--	--	--	--	--	--	--	--	--	--	--	--

Table 2
Metal, Polychlorinated Biphenyl, and Petroleum Hydrocarbon Analytical Results in Soil
Former Hambleton Lumber Mill
Washougal, Washington

Area	MTCA Method A Soil CULs— Unrestricted Use	Fill Areas						B-1 , M1, and Potential UST Pit (south side)					
Location		TP-01	TP-02	TP-03	TP-04	TP-05	TP-06	TP-09	TP-09	TP-10	TP-10	TP-11	TP-11
Date Collected		9/6/2011	9/6/2011	9/6/2011	9/6/2011	9/6/2011	9/6/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011
Start Depth (ft)		2.8	2.0	2.8	2.0	3.0	3.0	1.8	6.8	1.8	6.8	1.8	6.8
End Depth (ft)		3.3	5.0	3.3	4.5	13.0	13.0	2.3	7.3	2.3	7.3	2.3	7.3
PCBs (mg/kg)													
Aroclor 1016	NA	0.0005 U	0.0004 U	0.0005 U	0.0004 U	0.0007 U	0.0006 U	--	--	--	--	--	--
Aroclor 1221	NA	0.0005 U	0.0004 U	0.0005 U	0.0004 U	0.0007 U	0.0006 U	--	--	--	--	--	--
Aroclor 1232	NA	0.0005 U	0.0004 U	0.0005 U	0.0004 U	0.0007 U	0.0006 U	--	--	--	--	--	--
Aroclor 1242	NA	0.0005 U	0.0004 U	0.0005 U	0.0004 U	0.0007 U	0.0006 U	--	--	--	--	--	--
Aroclor 1248	NA	0.0005 U	0.0004 U	0.0005 U	0.0004 U	0.0007 U	0.0006 U	--	--	--	--	--	--
Aroclor 1254	NA	0.0005 U	0.0004 U	0.0005 U	0.0004 U	0.0007 U	0.0006 U	--	--	--	--	--	--
Aroclor 1260	NA	0.0005 U	0.0004 U	0.0005 U	0.0004 U	0.0007 U	0.0006 U	--	--	--	--	--	--
Aroclor 1262	NA	0.0005 U	0.0004 U	0.0005 U	0.0004 U	0.0007 U	0.0006 U	--	--	--	--	--	--
Aroclor 1268	NA	0.0005 U	0.0004 U	0.0005 U	0.0004 U	0.0007 U	0.0006 U	--	--	--	--	--	--
Total PCBs	1	0.0005 U	0.0004 U	0.0005 U	0.0004 U	0.0007 U	0.0006 U	--	--	--	--	--	--
TPH (mg/kg)													
DRO	2000	305	--	--	--	185	187	79.9	19.5 U	19 U	18 U	68.7	17.8 U
GRO	100	--	--	--	--	--	--	5.39 U	4.42 U	23.7	5.85 U	7.93 U	3.48 U
RRO	2000	1180	--	--	--	662	1140	475	64.9 U	63.3 U	59.9 U	488	59.2 U
HCIDs (mg/kg)													
DRO	NA	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
GRO	NA	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
Kerosene	NA	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
RRO	NA	DET	ND	ND	ND	DET	DET	--	--	--	--	--	--
Mineral Spirits	NA	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--

Table 2
Metal, Polychlorinated Biphenyl, and Petroleum Hydrocarbon Analytical Results in Soil
Former Hambleton Lumber Mill
Washougal, Washington

Area	MTCA Method A Soil CULs— Unrestricted Use	Petroleum Storage Area					Aggregate Recycling Area				
Location		SS-14	TP-12	TP-13	TP-14	TP-15	TP-16	TP-16	TP-16	TP-17	TP-17
Date Collected		9/7/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011
Start Depth (ft)		0.5	0.8	0.8	0.8	0.8	1.3	3.8	9.8	1.3	3.8
End Depth (ft)		1.5	1.3	1.3	1.3	1.3	1.8	4.3	10.3	1.8	4.3
Metals (mg/kg)											
Arsenic	20	7.15	2.84	2.82 U	2.16 U	2.4 U	2.62 U	2.16 U	2.41 U	2.8	3.53
Barium	NA	208	202	151	231	197	161	283	110	195	280
Cadmium	2	0.0826 U	0.115 U	0.141 U	0.108 U	0.12 U	0.249	0.119	0.12 U	0.27	0.298
Chromium	47.4 ^a	15.6	20.1	17.6	19.1	18.1	20.6	19.3	16.2	29.8	30.9
Lead	250	7.96	7.41	14.6	4.68	2.46	259	412	2.41 U	248	438
Mercury	2	0.0487	0.0306	0.0285	0.0264	0.0229	1.12	9.53	0.0201	0.842	0.94
Selenium	NA	1.65 U	2.3 U	2.82 U	2.16 U	2.4 U	2.62 U	2.16 U	2.41 U	2.08 U	2.3 U
Silver	NA	1.76	2.3 U	2.82 U	2.16 U	2.4 U	2.25 U	2.48	2.41 U	2.08 U	2.33
TCLP Metals (mg/L)											
Lead	NA	--	--	--	--	--	--	--	--	--	--
Mercury	NA	--	--	--	--	--	--	--	--	--	--

Table 2
Metal, Polychlorinated Biphenyl, and Petroleum Hydrocarbon Analytical Results in Soil
Former Hambleton Lumber Mill
Washougal, Washington

Area	MTCA Method A Soil CULs— Unrestricted Use	Petroleum Storage Area					Aggregate Recycling Area				
Location		SS-14	TP-12	TP-13	TP-14	TP-15	TP-16	TP-16	TP-16	TP-17	TP-17
Date Collected		9/7/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011
Start Depth (ft)		0.5	0.8	0.8	0.8	0.8	1.3	3.8	9.8	1.3	3.8
End Depth (ft)		1.5	1.3	1.3	1.3	1.3	1.8	4.3	10.3	1.8	4.3
PCBs (mg/kg)											
Aroclor 1016	NA	--	--	--	--	--	0.00039 U	0.00042 U	0.00043 U	0.00039 U	0.00043 U
Aroclor 1221	NA	--	--	--	--	--	0.00039 U	0.00042 U	0.00043 U	0.00039 U	0.00043 U
Aroclor 1232	NA	--	--	--	--	--	0.00039 U	0.00042 U	0.00043 U	0.00039 U	0.00043 U
Aroclor 1242	NA	--	--	--	--	--	0.00039 U	0.00042 U	0.00043 U	0.00039 U	0.00043 U
Aroclor 1248	NA	--	--	--	--	--	0.00039 U	0.00042 U	0.00043 U	0.00039 U	0.00043 U
Aroclor 1254	NA	--	--	--	--	--	0.819	0.00042 U	0.00043 U	0.142	0.00043 U
Aroclor 1260	NA	--	--	--	--	--	1.05	0.0633	0.00043 U	0.21	0.763
Aroclor 1262	NA	--	--	--	--	--	0.00039 U	0.00042 U	0.00043 U	0.00039 U	0.00043 U
Aroclor 1268	NA	--	--	--	--	--	0.00039 U	0.00042 U	0.00043 U	0.00039 U	0.00043 U
Total PCBs	1	--	--	--	--	--	1.869	0.0633	0.00043 U	0.352	0.763
TPH (mg/kg)											
DRO	2000	25.8	39.8	291	19.5 U	19.4 U	--	--	--	--	--
GRO	100	30.2	--	--	--	--	--	--	--	--	--
RRO	2000	148	70.3	491	64.9 U	64.8 U	--	--	--	--	--
HCIDs (mg/kg)											
DRO	NA	--	--	--	--	--	--	--	--	--	--
GRO	NA	--	--	--	--	--	--	--	--	--	--
Kerosene	NA	--	--	--	--	--	--	--	--	--	--
RRO	NA	--	--	--	--	--	--	--	--	--	--
Mineral Spirits	NA	--	--	--	--	--	--	--	--	--	--

Table 2
Metal, Polychlorinated Biphenyl, and Petroleum Hydrocarbon Analytical Results in Soil
Former Hambleton Lumber Mill
Washougal, Washington

Area	MTCA Method A Soil CULs— Unrestricted Use	Aggregate Recycling Area								
Location		TP-17	Comp (TP-16 and TP-17)	TP-18	TP-19	TP-19	TP-19	TP-20	TP-20	TP-21
Date Collected		10/27/2011	10/27/2011	10/27/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011
Start Depth (ft)		10.3	NA	3.8	1.3	3.3	5.8	3.8	9.8	3.8
End Depth (ft)		10.3	NA	4.3	1.8	3.3	6.3	4.3	10.3	4.3
Metals (mg/kg)										
Arsenic	20	3.37	--	4.28	3.9	3.44	2.45 U	2.16 U	--	2.09 U
Barium	NA	105	--	205	171	123	239	149	--	75.6
Cadmium	2	0.118 U	--	0.129 U	0.28	0.225	0.123 U	0.237	--	0.104 U
Chromium	47.4 ^o	14.5	--	24.1	18.8	16	25.2	18.2	--	11
Lead	250	2.36 U	--	66.2	143	212	10.5	178	--	91.4
Mercury	2	0.0192 U	--	0.885	0.376	0.856	0.0338	0.771	--	0.825
Selenium	NA	2.36 U	--	2.58 U	2.24 U	2.05 U	2.45 U	2.16 U	--	2.09 U
Silver	NA	2.36 U	--	2.58 U	2.24 U	2.05 U	2.45 U	2.16 U	--	2.44
TCLP Metals (mg/L)										
Lead	NA	--	0.576	--	--	--	--	--	--	--
Mercury	NA	--	0.001 U	--	--	--	--	--	--	--

Table 2
Metal, Polychlorinated Biphenyl, and Petroleum Hydrocarbon Analytical Results in Soil
Former Hambleton Lumber Mill
Washougal, Washington

Area	MTCA Method A Soil CULs— Unrestricted Use	Aggregate Recycling Area								
Location		TP-17	Comp (TP-16 and TP-17)	TP-18	TP-19	TP-19	TP-19	TP-20	TP-20	TP-21
Date Collected		10/27/2011	10/27/2011	10/27/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011
Start Depth (ft)		10.3	NA	3.8	1.3	3.3	5.8	3.8	9.8	3.8
End Depth (ft)		10.3	NA	4.3	1.8	3.3	6.3	4.3	10.3	4.3
PCBs (mg/kg)										
Aroclor 1016	NA	0.00041 U	--	0.00045 U	0.00037 U	0.0004 U	0.00044 U	0.00037 U	0.00039 U	0.00038 U
Aroclor 1221	NA	0.00041 U	--	0.00045 U	0.00037 U	0.0004 U	0.00044 U	0.00037 U	0.00039 U	0.00038 U
Aroclor 1232	NA	0.00041 U	--	0.00045 U	0.00037 U	0.0004 U	0.00044 U	0.00037 U	0.00039 U	0.00038 U
Aroclor 1242	NA	0.00041 U	--	0.00045 U	0.00037 U	0.0004 U	0.00044 U	0.00037 U	0.00039 U	0.00038 U
Aroclor 1248	NA	0.00041 U	--	0.00045 U	0.00037 U	0.0004 U	0.00044 U	0.00037 U	0.00039 U	0.00038 U
Aroclor 1254	NA	0.00041 U	--	0.00045 U	0.213	0.0004 U	0.00044 U	0.00037 U	0.00039 U	0.465
Aroclor 1260	NA	0.00041 U	--	0.0717	0.444	0.546	0.0168	1.17	0.00118	0.387
Aroclor 1262	NA	0.00041 U	--	0.00045 U	0.00037 U	0.0004 U	0.00044 U	0.00037 U	0.00039 U	0.00038 U
Aroclor 1268	NA	0.00041 U	--	0.00045 U	0.00037 U	0.0004 U	0.00044 U	0.00037 U	0.00039 U	0.00038 U
Total PCBs	1	0.00041 U	--	0.0717	0.657	0.546	0.0168	1.17	0.00118	0.852
TPH (mg/kg)										
DRO	2000	--	--	--	--	--	--	--	--	--
GRO	100	--	--	--	--	--	--	--	--	--
RRO	2000	--	--	--	--	--	--	--	--	--
HCIDs (mg/kg)										
DRO	NA	--	--	--	--	--	--	--	--	--
GRO	NA	--	--	--	--	--	--	--	--	--
Kerosene	NA	--	--	--	--	--	--	--	--	--
RRO	NA	--	--	--	--	--	--	--	--	--
Mineral Spirits	NA	--	--	--	--	--	--	--	--	--

Table 2
Metal, Polychlorinated Biphenyl, and Petroleum Hydrocarbon Analytical Results in Soil
Former Hambleton Lumber Mill
Washougal, Washington

Area	MTCA Method A Soil CULs— Unrestricted Use	Aggregate Recycling Area			High Traffic / Storage Areas / Aggregate Recycling Area		Log Pond Overfill			
Location		TP-22	TP-22	TP-22	TP-07	TP-08	SS-22	SS-23	SS-24	TP-23
Date Collected		10/28/2011	10/28/2011	10/28/2011	9/6/2011	9/6/2011	9/8/2011	9/8/2011	9/8/2011	10/28/2011
Start Depth (ft)		1.3	2.8	9.8	1.0	1.0	0.5	0.5	0.5	2.8
End Depth (ft)		1.8	3.3	10.3	2.0	2.0	1.5	1.5	1.5	3.3
Metals (mg/kg)										
Arsenic	20	2.61	2.05 U	2.62 U	6.09	3.51	4.88	5.12	7.13	3.18 U
Barium	NA	126	33.5	141	106 J	238 J	163	65.5	95.9	92.2
Cadmium	2	0.163	0.102 U	0.183	0.214	0.111 U	0.264	0.0671 U	0.0979 U	0.159 U
Chromium	47.4 ^a	15.4	7.39	15	16.3	18.3	14.5	9.97	13.4	12.5
Lead	250	12.2	40.3	94.8	24.2	5.25	4.15	14.9	9.29	4.51
Mercury	2	0.284	0.211	0.0433	0.019	0.0314	0.0188 U	0.0738	0.0415	0.0235 U
Selenium	NA	2.17 U	2.05 U	2.62 U	2.14 U	2.21 U	1.82 U	1.34 U	1.96 U	3.18 U
Silver	NA	2.17 U	2.05 U	2.62 U	2.14 U	2.21 U	1.82 U	1.76	2.29	3.18 U
TCLP Metals (mg/L)										
Lead	NA	--	--	--	--	--	--	--	--	--
Mercury	NA	--	--	--	--	--	--	--	--	--

Table 2
Metal, Polychlorinated Biphenyl, and Petroleum Hydrocarbon Analytical Results in Soil
Former Hambleton Lumber Mill
Washougal, Washington

Area	MTCA Method A Soil CULs— Unrestricted Use	Aggregate Recycling Area			High Traffic / Storage Areas / Aggregate Recycling Area		Log Pond Overfill			
Location		TP-22	TP-22	TP-22	TP-07	TP-08	SS-22	SS-23	SS-24	TP-23
Date Collected		10/28/2011	10/28/2011	10/28/2011	9/6/2011	9/6/2011	9/8/2011	9/8/2011	9/8/2011	10/28/2011
Start Depth (ft)		1.3	2.8	9.8	1.0	1.0	0.5	0.5	0.5	2.8
End Depth (ft)		1.8	3.3	10.3	2.0	2.0	1.5	1.5	1.5	3.3
PCBs (mg/kg)										
Aroclor 1016	NA	0.00037 U	0.00037 U	0.00045 U	--	--	0.00038 U	0.00035 U	0.00037 U	--
Aroclor 1221	NA	0.00037 U	0.00037 U	0.00045 U	--	--	0.00038 U	0.00035 U	0.00037 U	--
Aroclor 1232	NA	0.00037 U	0.00037 U	0.00045 U	--	--	0.00038 U	0.00035 U	0.00037 U	--
Aroclor 1242	NA	0.00037 U	0.00037 U	0.00045 U	--	--	0.00038 U	0.00035 U	0.00037 U	--
Aroclor 1248	NA	0.00037 U	0.00037 U	0.00045 U	--	--	0.00038 U	0.00035 U	0.00037 U	--
Aroclor 1254	NA	0.12	0.153	0.00045 U	--	--	0.00038 U	0.00035 U	0.00037 U	--
Aroclor 1260	NA	0.202	0.187	0.00045 U	--	--	0.00038 U	0.0286	0.143	--
Aroclor 1262	NA	0.00037 U	0.00037 U	0.00045 U	--	--	0.00038 U	0.00035 U	0.00037 U	--
Aroclor 1268	NA	0.00037 U	0.00037 U	0.00045 U	--	--	0.00038 U	0.00035 U	0.00037 U	--
Total PCBs	1	0.322	0.34	0.454	--	--	0.00038 U	0.0286	0.143	--
TPH (mg/kg)										
DRO	2000	--	--	--	16.7 U	18.6 U	834	207	219	409
GRO	100	--	--	--	--	--	2.82 U	2.62 U	2.74 U	--
RRO	2000	--	--	--	676	61.9 U	1470	1470	1310	502
HCIDs (mg/kg)										
DRO	NA	--	--	--	--	--	--	--	--	--
GRO	NA	--	--	--	--	--	--	--	--	--
Kerosene	NA	--	--	--	--	--	--	--	--	--
RRO	NA	--	--	--	--	--	--	--	--	--
Mineral Spirits	NA	--	--	--	--	--	--	--	--	--

Table 2
Metal, Polychlorinated Biphenyl, and Petroleum Hydrocarbon Analytical Results in Soil
Former Hambleton Lumber Mill
Washougal, Washington

Area	MTCA Method A Soil CULs— Unrestricted Use	Log Pond Overfill			Mill					
Location		TP-24	TP-25	TP-25	SS-21	TP-26	TP-27	TP-28	TP-29	TP-29
Date Collected		10/28/2011	10/28/2011	10/28/2011	9/8/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011
Start Depth (ft)		0.8	0.8	2.8	0.0	0.8	0.8	0.8	0.8	2.8
End Depth (ft)		1.3	1.3	3.3	1.0	1.3	1.3	1.3	1.3	3.3
Metals (mg/kg)										
Arsenic	20	2.02 U	1.62 U	--	8.3	3.37	4.32	2.24	2	--
Barium	NA	140	53.8	--	151	67	102	114	47.9	--
Cadmium	2	0.101 U	0.0812 U	--	0.0815 U	0.122 U	0.124 U	0.104 U	0.352	--
Chromium	47.4 ^a	15	4.52	--	21.2	17.1	14.6	18.4	10.8	--
Lead	250	20.1	1.62 U	--	4.85	2.88	6.79	2.94	109	--
Mercury	2	0.0384	0.0213	--	0.0111	0.0182 U	0.0194 U	0.0244	2.12	0.123
Selenium	NA	2.02 U	1.62 U	--	1.63 U	2.44 U	2.48 U	2.08 U	1.95 U	--
Silver	NA	2.32	2.55	--	2.54	2.44 U	2.48 U	2.08 U	1.95 U	--
TCLP Metals (mg/L)										
Lead	NA	--	--	--	--	--	--	--	0.432	--
Mercury	NA	--	--	--	--	--	--	--	--	--

Table 2
Metal, Polychlorinated Biphenyl, and Petroleum Hydrocarbon Analytical Results in Soil
Former Hambleton Lumber Mill
Washougal, Washington

Area	MTCA Method A Soil CULs— Unrestricted Use	Log Pond Overfill			Mill					
Location		TP-24	TP-25	TP-25	SS-21	TP-26	TP-27	TP-28	TP-29	TP-29
Date Collected		10/28/2011	10/28/2011	10/28/2011	9/8/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011
Start Depth (ft)		0.8	0.8	2.8	0.0	0.8	0.8	0.8	0.8	2.8
End Depth (ft)		1.3	1.3	3.3	1.0	1.3	1.3	1.3	1.3	3.3
PCBs (mg/kg)										
Aroclor 1016	NA	--	--	--	0.0004 U	--	--	--	--	--
Aroclor 1221	NA	--	--	--	0.0004 U	--	--	--	--	--
Aroclor 1232	NA	--	--	--	0.0004 U	--	--	--	--	--
Aroclor 1242	NA	--	--	--	0.0004 U	--	--	--	--	--
Aroclor 1248	NA	--	--	--	0.0004 U	--	--	--	--	--
Aroclor 1254	NA	--	--	--	0.0004 U	--	--	--	--	--
Aroclor 1260	NA	--	--	--	0.0004 U	--	--	--	--	--
Aroclor 1262	NA	--	--	--	0.0004 U	--	--	--	--	--
Aroclor 1268	NA	--	--	--	0.0004 U	--	--	--	--	--
Total PCBs	1	--	--	--	0.0004 U	--	--	--	--	--
TPH (mg/kg)										
DRO	2000	17.6 U	928	21.3	18.1 U	19.1 U	18.6 U	18.1 U	83.7	--
GRO	100	--	--	--	3.02 U	--	--	--	--	--
RRO	2000	135	7920	101	60.3 U	63.5 U	62 U	60.5 U	757	--
HCIDs (mg/kg)										
DRO	NA	--	--	--	--	--	--	--	--	--
GRO	NA	--	--	--	--	--	--	--	--	--
Kerosene	NA	--	--	--	--	--	--	--	--	--
RRO	NA	--	--	--	--	--	--	--	--	--
Mineral Spirits	NA	--	--	--	--	--	--	--	--	--

Table 3
Volatile Organic Compound Analytical Results in Soil (mg/kg)
Former Hambleton Lumber Mill
Washougal, Washington

	MTCA Method A Soil CULs— Unrestricted Use	High Traffic / Storage Areas		Petroleum Storage Area					Log Pond Overfill		
Location		SS-03	SS-08	SS-14	TP-12	TP-13	TP-14	TP-15	SS-22	SS-23	SS-24
Date Collected		9/7/2011	9/7/2011	9/7/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	9/8/2011	9/8/2011	9/8/2011
Start Depth (ft)		0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.5	0.5	0.5
End Depth (ft)		1.5	1.5	1.5	1.3	1.3	1.3	1.3	1.5	1.5	1.5
VOCs (mg/kg)											
1,1,1,2-Tetrachloroethane	38.46 ^b	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
1,1,1-Trichloroethane	2	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
1,1,2,2-Tetrachloroethane	5b	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
1,1,2-Trichloroethane	17.544 ^b	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
1,1-Dichloroethane	16000 ^b	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
1,1-Dichloroethene	NA	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
1,1-Dichloropropene	NA	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
1,2,3-Trichlorobenzene	NA	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
1,2,3-Trichloropropane	0.0333	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
1,2,4-Trichlorobenzene	NA	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
1,2,4-Trimethylbenzene	NA	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
1,2-Dibromo-3-chloropropane	NV	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
1,2-Dibromoethane	NA	0.0061 U	0.0059 U	0.0061 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0056 U	0.0052 U	0.0055 U
1,2-Dichlorobenzene	7200 ^b	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
1,2-Dichloroethane	10.989 ^b	0.0061 U	0.0059 U	0.0061 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0056 U	0.0052 U	0.0055 U
1,2-Dichloropropane	NV	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
1,3,5-Trimethylbenzene	800 ^b	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
1,3-Dichlorobenzene	NA	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
1,3-Dichloropropane	NA	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
1,4-Dichlorobenzene	NV	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
2,2-Dichloropropane	NV	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
2-Butanone	NA	0.0243 U	0.0236 U	0.0289 J	0.038 U	0.127 U	0.0723	0.11 U	0.0225 U	0.0209 U	0.0219 U

Table 3
Volatile Organic Compound Analytical Results in Soil (mg/kg)
Former Hambleton Lumber Mill
Washougal, Washington

	MTCA Method A Soil CULs— Unrestricted Use	High Traffic / Storage Areas		Petroleum Storage Area					Log Pond Overfill		
Location		SS-03	SS-08	SS-14	TP-12	TP-13	TP-14	TP-15	SS-22	SS-23	SS-24
Date Collected		9/7/2011	9/7/2011	9/7/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	9/8/2011	9/8/2011	9/8/2011
Start Depth (ft)		0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.5	0.5	0.5
End Depth (ft)		1.5	1.5	1.5	1.3	1.3	1.3	1.3	1.5	1.5	1.5
VOCs (mg/kg)											
2-Chlorotoluene	NA	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
2-Hexanone	NA	0.0243 U	0.0236 U	0.0244 UR	0.019 U	0.0637 U	0.0303 U	0.0552 U	0.0225 U	0.0209 U	0.0219 U
4-Chlorotoluene	NA	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
4-Isopropyltoluene	NA	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
4-Methyl-2-pentanone	NA	0.0243 U	0.0236 U	0.0244 UR	0.038 U	0.127 U	0.0607 U	0.11 U	0.0225 U	0.0209 U	0.0219 U
Acetone	72000 ^b	0.0607 U	0.16	0.163 J	0.147	0.403	0.3	0.276 U	0.0564 U	0.0527	0.0548 U
Benzene	0.03	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Bromobenzene	NA	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Bromodichloromethane	16.13 ^b	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Bromoform	126.582 ^b	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Bromomethane	112	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Carbon disulfide	8000 ^b	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Carbon tetrachloride	14.3 ^b	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Chlorobenzene	1600 ^b	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Chlorobromomethane	NA	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Chloroethane	NA	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Chloroform	800 ^b	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Chloromethane	NV	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
cis-1,2-Dichloroethene	NA	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
cis-1,3-Dichloropropene	NA	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U

Table 3
Volatile Organic Compound Analytical Results in Soil (mg/kg)
Former Hambleton Lumber Mill
Washougal, Washington

	MTCA Method A Soil CULs— Unrestricted Use	High Traffic / Storage Areas		Petroleum Storage Area					Log Pond Overfill		
Location		SS-03	SS-08	SS-14	TP-12	TP-13	TP-14	TP-15	SS-22	SS-23	SS-24
Date Collected		9/7/2011	9/7/2011	9/7/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	9/8/2011	9/8/2011	9/8/2011
Start Depth (ft)		0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.5	0.5	0.5
End Depth (ft)		1.5	1.5	1.5	1.3	1.3	1.3	1.3	1.5	1.5	1.5
VOCs (mg/kg)											
Dibromochloromethane	11.905 ^b	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Dibromomethane	NV	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Dichlorodifluoromethane	NV	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Ethylbenzene	6	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Hexachlorobutadiene	12.821 ^b	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Isopropylbenzene	NV	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
m,p-Xylene	16000 ^b	0.0243 U	0.0236 U	0.0244 UR	0.019 U	0.0637 U	0.0303 U	0.0552 U	0.0225 U	0.0209 U	0.0219 U
Methyl tert-butyl ether	NA	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Methylene chloride	0.02	0.0607 U	0.059 U	0.061 UR	0.0474 U	0.159 U	0.0758 U	0.138 U	0.0564 U	0.0523 U	0.0548 U
Naphthalene	5	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
n-Butylbenzene	NA	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
n-Propylbenzene	8000 ^b	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
o-Xylene	16000 ^b	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
sec-Butylbenzene	NA	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Styrene	16000	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
tert-Butylbenzene	NA	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Tetrachloroethene	0.05	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Toluene	7	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
trans-1,2-dichloroethene	NA	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
trans-1,3-Dichloropropene	NA	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Trichloroethene	0.03	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Trichlorofluoromethane	NA	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U
Vinyl chloride	240 ^b	0.0121 U	0.0118 U	0.0122 UR	0.00949 U	0.0319 U	0.0152 U	0.0276 U	0.0113 U	0.0105 U	0.011 U

Table 3
Volatile Organic Compound Analytical Results in Soil (mg/kg)
Former Hambleton Lumber Mill
Washougal, Washington

	MTCA Method A Soil CULs— Unrestricted Use	Log Pond Overfill			Mill				
Location		TP-23	TP-24	TP-25	SS-21	TP-26	TP-27	TP-28	TP-29
Date Collected		10/28/2011	10/28/2011	10/28/2011	9/8/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011
Start Depth (ft)		2.8	0.8	0.8	0.0	0.8	0.8	0.8	0.8
End Depth (ft)		3.3	1.3	1.3	1.0	1.3	1.3	1.3	1.3
VOCs (mg/kg)									
1,1,1,2-Tetrachloroethane	38.46 ^b	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
1,1,1-Trichloroethane	2	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
1,1,2,2-Tetrachloroethane	5b	0.0196 U	0.0166 U	0.0552 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
1,1,2-Trichloroethane	17.544 ^b	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
1,1-Dichloroethane	16000 ^b	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
1,1-Dichloroethene	NA	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
1,1-Dichloropropene	NA	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
1,2,3-Trichlorobenzene	NA	0.0196 U	0.0166 U	0.0552 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
1,2,3-Trichloropropane	0.0333	0.0196 U	0.0166 U	0.0552 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
1,2,4-Trichlorobenzene	NA	0.0196 U	0.0166 U	0.0552 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
1,2,4-Trimethylbenzene	NA	0.0196 U	0.0166 U	0.0552 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
1,2-Dibromo-3-chloropropane	NV	0.0196 U	0.0166 U	0.0552 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
1,2-Dibromoethane	NA	0.0196 U	0.0166 U	0.00947 U	0.006 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
1,2-Dichlorobenzene	7200 ^b	0.0196 U	0.0166 U	0.0552 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
1,2-Dichloroethane	10.989 ^b	0.0196 U	0.0166 U	0.00947 U	0.006 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
1,2-Dichloropropane	NV	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
1,3,5-Trimethylbenzene	800 ^b	0.0196 U	0.0166 U	0.0552 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
1,3-Dichlorobenzene	NA	0.0196 U	0.0166 U	0.0552 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
1,3-Dichloropropane	NA	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
1,4-Dichlorobenzene	NV	0.0196 U	0.0166 U	0.0552 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
2,2-Dichloropropane	NV	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
2-Butanone	NA	0.0783 U	0.0662 U	0.0379 U	0.0241 U	0.0396 U	0.0665 U	0.0419 U	0.0643 U

Table 3
Volatile Organic Compound Analytical Results in Soil (mg/kg)
Former Hambleton Lumber Mill
Washougal, Washington

	MTCA Method A Soil CULs— Unrestricted Use	Log Pond Overfill			Mill				
Location		TP-23	TP-24	TP-25	SS-21	TP-26	TP-27	TP-28	TP-29
Date Collected		10/28/2011	10/28/2011	10/28/2011	9/8/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011
Start Depth (ft)		2.8	0.8	0.8	0.0	0.8	0.8	0.8	0.8
End Depth (ft)		3.3	1.3	1.3	1.0	1.3	1.3	1.3	1.3
VOCs (mg/kg)									
2-Chlorotoluene	NA	0.0196 U	0.0166 U	0.0552 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
2-Hexanone	NA	0.0392 U	0.0331 U	0.223	0.0241 U	0.0198 U	0.0332 U	0.0209 U	0.0322 U
4-Chlorotoluene	NA	0.0196 U	0.0166 U	0.0552 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
4-Isopropyltoluene	NA	0.0196 U	0.0166 U	0.0552 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
4-Methyl-2-pentanone	NA	0.0783 U	0.0662 U	0.0379 U	0.0241 U	0.0396 U	0.0665 U	0.0419 U	0.0643 U
Acetone	72000 ^b	0.196 U	0.166 U	0.116	0.0603 U	0.0991 U	0.166 U	0.105 U	0.161 U
Benzene	0.03	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Bromobenzene	NA	0.0196 U	0.0166 U	0.0552 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Bromodichloromethane	16.13 ^b	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Bromoform	126.582 ^b	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Bromomethane	112	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Carbon disulfide	8000 ^b	0.0196 U	0.0166 U	0.0109	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Carbon tetrachloride	14.3 ^b	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Chlorobenzene	1600 ^b	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Chlorobromomethane	NA	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Chloroethane	NA	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Chloroform	800 ^b	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Chloromethane	NV	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
cis-1,2-Dichloroethene	NA	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
cis-1,3-Dichloropropene	NA	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U

Table 3
Volatile Organic Compound Analytical Results in Soil (mg/kg)
Former Hambleton Lumber Mill
Washougal, Washington

	MTCA Method A Soil CULs— Unrestricted Use	Log Pond Overfill			Mill				
Location		TP-23	TP-24	TP-25	SS-21	TP-26	TP-27	TP-28	TP-29
Date Collected		10/28/2011	10/28/2011	10/28/2011	9/8/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011
Start Depth (ft)		2.8	0.8	0.8	0.0	0.8	0.8	0.8	0.8
End Depth (ft)		3.3	1.3	1.3	1.0	1.3	1.3	1.3	1.3
VOCs (mg/kg)									
Dibromochloromethane	11.905 ^b	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Dibromomethane	NV	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Dichlorodifluoromethane	NV	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Ethylbenzene	6	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Hexachlorobutadiene	12.821 ^b	0.0196 U	0.0166 U	0.0552 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Isopropylbenzene	NV	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
m,p-Xylene	16000 ^b	0.0392 U	0.0331 U	0.0189 U	0.0241 U	0.0198 U	0.0332 U	0.0209 U	0.0322 U
Methyl tert-butyl ether	NA	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Methylene chloride	0.02	0.0979 U	0.0828 U	0.0474 U	0.0603 U	0.0495 U	0.0831 U	0.0523 U	0.0804 U
Naphthalene	5	0.0196 U	0.0166 U	0.0552 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
n-Butylbenzene	NA	0.0196 U	0.0166 U	0.0552 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
n-Propylbenzene	8000 ^b	0.0196 U	0.0166 U	0.0552 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
o-Xylene	16000 ^b	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
sec-Butylbenzene	NA	0.0196 U	0.0166 U	0.0552 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Styrene	16000	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
tert-Butylbenzene	NA	0.0196 U	0.0166 U	0.0552 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Tetrachloroethene	0.05	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Toluene	7	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
trans-1,2-dichloroethene	NA	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
trans-1,3-Dichloropropene	NA	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Trichloroethene	0.03	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Trichlorofluoromethane	NA	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U
Vinyl chloride	240 ^b	0.0196 U	0.0166 U	0.00947 U	0.0121 U	0.00991 U	0.0166 U	0.0105 U	0.0161 U

Table 4
Polycyclic Aromatic Hydrocarbon Analytical Results in Soil (mg/kg)
Former Hambleton Lumber Mill
Washougal, Washington

	MTCA Method A Soil CULs— Unrestricted Use	Open Pit	Stockpiles			Debarker	High Traffic / Storage Areas		Fill Areas			
Location		Open Pit 1	SP-01	SP-02	SP-03	SS-16	SS-01	SS-11	TP-01	TP-02	TP-03	TP-04
Date Collected		9/15/2011	9/8/2011	9/8/2011	9/8/2011	9/7/2011	9/6/2011	9/7/2011	9/6/2011	9/6/2011	9/6/2011	9/6/2011
Start Depth (ft)		20.0	0.3	0.3	0.3	0.5	1.0	1.5	2.8	2.0	2.8	2.0
End Depth (ft)		21.0	0.8	0.8	0.8	1.5	2.0	2.5	3.3	5.0	3.3	4.5
1-Methylnaphthalene	NV	0.011	0.0076 U	0.0069 U	0.00674 U	0.0395 U	--	--	0.0643	0.0084 U	0.0093 U	0.0081 U
2-Methylnaphthalene	NV	0.0144	0.0076 U	0.0069 U	0.00674 U	0.0395 U	--	--	0.0698	0.0084 U	0.0093 U	0.0081 U
Acenaphthene	4800 ^b	0.0085 U	0.0076 U	0.0347 U	0.00674 U	0.0395 U	0.0092 J	0.0094 UJ	0.0312	0.0092	0.0093 U	0.0081 U
Acenaphthylene	NA	0.0093	0.0076 U	0.0347 U	0.00674 U	0.0395 U	0.0126 J	0.0094 UJ	0.0211	0.0084 U	0.0093 U	0.0081 U
Anthracene	24000 ^b	0.0093	0.0083	0.0347 U	0.00674 U	0.0395 U	0.016 J	0.0132 J	0.0092 U	0.0092	0.0093 U	0.0081 U
Benzo(a)anthracene	NV	0.0246	0.0159	0.257	0.00674 U	0.0395 U	0.0311 J	0.0292 J	0.022	0.0251	0.0093 U	0.0081 U
Benzo(a)pyrene	0.1	0.0348	0.0363	0.232	0.00674 U	0.0395 U	0.0453 J	0.0377 J	0.0202	0.0226	0.0159	0.0081 U
Benzo(b)fluoranthene	NV	0.0484	0.0582	0.336	0.00674 U	0.0395 U	0.0512 J	0.0509 J	0.0294	0.0318	0.0177	0.0105
Benzo(ghi)perylene	NA	0.0594	0.0537	0.142	0.00808	0.0395 U	0.0521 J	0.0339 J	0.0211	0.0201	0.0103	0.0089
Benzo(k)fluoranthene	NV	0.0212	0.0627	0.173	0.00674 U	0.0395 U	0.0227 J	0.016 J	0.0092 U	0.0084 U	0.0093 U	0.0081 U
Chrysene	NV	0.0263	0.0378	0.298	0.00674 U	0.0395 U	0.0395 J	0.0387 J	0.0331	0.0461	0.0299	0.0097
Dibenzo(a,h)anthracene	NV	0.017	0.0076 U	0.0347 U	0.00674 U	0.0395 U	0.0084 UJ	0.0094 UJ	0.0092 U	0.0084 U	0.0093 U	0.0081 U
Fluoranthene	3200 ^b	0.0221	0.0242	0.267	0.00674 U	0.0395 U	0.0563 J	0.0679 J	0.0275	0.0394	0.0093 U	0.0113
Fluorene	3200 ^b	0.0085 U	0.0076 U	0.0347 U	0.00674 U	0.0395 U	0.0092 J	0.0094 UJ	0.0211	0.0084 U	0.0093 U	0.0081 U
Indeno(1,2,3-cd)pyrene	NV	0.034	0.0265	0.139	0.00674 U	0.0395 U	0.0411 J	0.0236 J	0.0101	0.0142	0.0093 U	0.0081 U
Naphthalene	5	0.0136	0.0076 U	0.0069 U	0.00674 U	0.0395 U	0.026 J	0.0094 UJ	0.0716	0.0084 U	0.0093 U	0.0081 U
Phenanthrene	NA	0.0102	0.0159	0.0347 U	0.00674 U	0.0395 U	0.063 J	0.0547 J	0.0331	0.0343	0.0093 U	0.0081 U
Pyrene	2400 ^b	0.0221	0.0378	0.388	0.00674 U	0.0395 U	0.0512 J	0.0509 J	0.0441	0.0586	0.0093 U	0.0129
cPAH TEC	0.1	0.050	0.053	0.327	0.005	0.030	0.061	0.051	0.028	0.031	0.020	0.007

Table 4
Polycyclic Aromatic Hydrocarbon Analytical Results in Soil (mg/kg)
Former Hambleton Lumber Mill
Washougal, Washington

	MTCA Method A Soil CULs— Unrestricted Use	Fill Areas		B-1 , M1, and Potential UST Pit (south side)					
Location		TP-05	TP-06	TP-09	TP-09	TP-10	TP-10	TP-11	TP-11
Date Collected		9/6/2011	9/6/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011	9/7/2011
Start Depth (ft)		3.0	3.0	1.8	6.8	1.8	6.8	1.8	6.8
End Depth (ft)		13.0	13.0	2.3	7.3	2.3	7.3	2.3	7.3
1-Methylnaphthalene	NV	0.0145 U	0.011 U	0.0088 U	0.0087 U	0.0084 U	0.008 U	0.0118 U	0.0079 U
2-Methylnaphthalene	NV	0.0145 U	0.011 U	0.0088 U	0.0104	0.0084 U	0.008 U	0.0118 U	0.0079 U
Acenaphthene	4800 ^b	0.0145 U	0.011 U	0.0088 U	0.0087 U	0.0084 U	0.008 U	0.0118 U	0.0079 U
Acenaphthylene	NA	0.0145 U	0.011 U	0.0088 U	0.0087 U	0.0084 U	0.008 U	0.0118 U	0.0079 U
Anthracene	24000 ^b	0.0145 U	0.011 U	0.0088 U	0.0571	0.0084 U	0.008 U	0.0118 U	0.0079 U
Benzo(a)anthracene	NV	0.0145 U	0.022	0.0159	0.0623	0.0084 U	0.008 U	0.0154	0.0079 U
Benzo(a)pyrene	0.1	0.0145 U	0.0231	0.015	0.032	0.0084 U	0.008 U	0.013	0.0079 U
Benzo(b)fluoranthene	NV	0.0188	0.0342	0.022	0.0173	0.0084 U	0.008 U	0.0261	0.0079 U
Benzo(ghi)perylene	NA	0.0145 U	0.0264	0.0159	0.0216	0.0084 U	0.008 U	0.0261	0.0079 U
Benzo(k)fluoranthene	NV	0.0145 U	0.0121	0.0097	0.0087 U	0.0084 U	0.008 U	0.0154	0.0079 U
Chrysene	NV	0.0217	0.0342	0.0141	0.0701	0.0084 U	0.008 U	0.0272	0.0079 U
Dibenzo(a,h)anthracene	NV	0.0145 U	0.011 U	0.0088 U	0.0087 U	0.0084 U	0.008 U	0.0118 U	0.0079 U
Fluoranthene	3200 ^b	0.0145 U	0.0209	0.0159	0.0693	0.0084 U	0.008 U	0.0154	0.0079 U
Fluorene	3200 ^b	0.0145 U	0.011 U	0.0088 U	0.0095	0.0084 U	0.008 U	0.0118 U	0.0079 U
Indeno(1,2,3-cd)pyrene	NV	0.0145 U	0.0154	0.0159	0.0087 U	0.0084 U	0.008 U	0.0166	0.0079 U
Naphthalene	5	0.0145 U	0.011 U	0.0088 U	0.0087 U	0.0211	0.008 U	0.0118 U	0.0079 U
Phenanthrene	NA	0.0145 U	0.0187	0.03	0.48	0.0084 U	0.008 U	0.013	0.0079 U
Pyrene	2400 ^b	0.0145 U	0.0309	0.0326	0.371	0.0084 U	0.008 U	0.0249	0.0079 U
cPAH TEC	0.1	0.012	0.032	0.022	0.042	0.006	0.006	0.021	0.006

Table 4
Polycyclic Aromatic Hydrocarbon Analytical Results in Soil (mg/kg)
Former Hambleton Lumber Mill
Washougal, Washington

	MTCA Method A Soil CULs— Unrestricted Use	Aggregate Recycling Area								
Location		TP-16	TP-16	TP-16	TP-17	TP-17	TP-17	TP-18	TP-19	TP-19
Date Collected		10/27/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	10/27/2011	10/28/2011	10/28/2011
Start Depth (ft)		1.3	3.8	9.8	1.3	3.8	10.3	3.8	1.3	3.3
End Depth (ft)		1.8	4.3	10.3	1.8	4.3	10.3	4.3	1.8	3.3
1-Methylnaphthalene	NV	0.0078 U	0.00834 U	0.00867 U	0.0158 U	0.0231	0.00817 U	0.00897 U	0.00747 U	0.00791 U
2-Methylnaphthalene	NV	0.00936	0.00917	0.00954	0.0221	0.00857 U	0.00817 U	0.00897 U	0.00747 U	0.00791 U
Acenaphthene	4800 ^b	0.0078 U	0.00834 U	0.00867 U	0.0237	0.0943	0.00817 U	0.0134	0.00747 U	0.00791 U
Acenaphthylene	NA	0.0125	0.0125	0.00867 U	0.0221	0.0274	0.00817 U	0.00897 U	0.0127	0.0174
Anthracene	24000 ^b	0.0179	0.0192	0.00867 U	0.0394	0.0514	0.00817 U	0.0134	0.0209	0.0198
Benzo(a)anthracene	NV	0.0273	0.0358	0.00867 U	0.0536	0.0934	0.00817 U	0.0367	0.0299	0.049
Benzo(a)pyrene	0.1	0.0468	0.0533	0.0121	0.0505	0.0608	0.00817 U	0.0323	0.0336	0.0609
Benzo(b)fluoranthene	NV	0.0702	0.0617	0.0173	0.0868	0.078	0.00817 U	0.0484	0.0567	0.0854
Benzo(ghi)perylene	NA	0.0437	0.0658	0.013	0.0521	0.00857 U	0.00817 U	0.0278	0.0299	0.0561
Benzo(k)fluoranthene	NV	0.0164	0.0225	0.00867 U	0.0284	0.0771	0.00817 U	0.0152	0.0134	0.0182
Chrysene	NV	0.0234	0.0358	0.00867 U	0.0552	0.133	0.00817 U	0.0305	0.0321	0.0435
Dibenzo(a,h)anthracene	NV	0.0078 U	0.0233	0.00867 U	0.0221	0.00857 U	0.00817 U	0.00897 U	0.00747 U	0.0166
Fluoranthene	3200 ^b	0.0421	0.0525	0.00867 U	0.155	0.214	0.00817 U	0.0923	0.0515	0.0696
Fluorene	3200 ^b	0.0078 U	0.00834 U	0.00867 U	0.0158 U	0.0249	0.00817 U	0.00897 U	0.00747 U	0.00791 U
Indeno(1,2,3-cd)pyrene	NV	0.0273	0.045	0.00867 U	0.0331	0.00857 U	0.00817 U	0.0197	0.0231	0.0435
Naphthalene	5	0.0172	0.0183	0.00867 U	0.0268	0.0343	0.00817 U	0.00897 U	0.0119	0.015
Phenanthrene	NA	0.025	0.0308	0.00867 U	0.0552	0.0857	0.00817 U	0.0341	0.0299	0.0316
Pyrene	2400 ^b	0.0647	0.0742	0.013	0.216	0.171	0.00817 U	0.0896	0.0761	0.0996
cPAH TEC	0.1	0.062	0.072	0.016	0.073	0.088	0.006	0.045	0.047	0.083

Table 4
Polycyclic Aromatic Hydrocarbon Analytical Results in Soil (mg/kg)
Former Hambleton Lumber Mill
Washougal, Washington

	MTCA Method A Soil CULs— Unrestricted Use	Aggregate Recycling Area						Log Pond Overfill		
Location		TP-19	TP-20	TP-21	TP-22	TP-22	TP-22	SS-22	SS-23	TP-23
Date Collected		10/28/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011	9/8/2011	9/8/2011	10/28/2011
Start Depth (ft)		5.8	3.8	3.8	1.3	2.8	9.8	0.5	0.5	2.8
End Depth (ft)		6.3	4.3	4.3	1.8	3.3	10.3	1.5	1.5	3.3
1-Methylnaphthalene	NV	0.00883 U	0.00749 U	0.00751 U	0.00739 U	0.00737 U	0.00909 U	0.00752 U	0.0202	1.43
2-Methylnaphthalene	NV	0.00883 U	0.00973	0.0105	0.0155	0.0177	0.00909 U	0.00752 U	0.023	1.56
Acenaphthene	4800 ^b	0.00883 U	0.0621	0.00751 U	0.00739 U	0.00737 U	0.00909 U	0.00752 U	0.00698 U	5.87
Acenaphthylene	NA	0.00883 U	0.018	0.0195	0.0391	0.0317	0.00909 U	0.00752 U	0.0356	0.0318
Anthracene	24000 ^b	0.00883 U	0.0546	0.0285	0.0628	0.0457	0.00909 U	0.00752 U	0.0711	0.781
Benzo(a)anthracene	NV	0.00883 U	0.0658	0.0458	0.0288	0.0309	0.00909 U	0.00752 U	0.0662	0.0255
Benzo(a)pyrene	0.1	0.00883 U	0.0688	0.0638	0.045	0.0501	0.00909 U	0.00752 U	0.109	0.0276
Benzo(b)fluoranthene	NV	0.00883 U	0.098	0.0818	0.0709	0.0678	0.0136	0.00752 U	0.0558	0.0382
Benzo(ghi)perylene	NA	0.00883 U	0.0569	0.0631	0.062	0.0634	0.00909 U	0.00752 U	0.0216	0.0106 U
Benzo(k)fluoranthene	NV	0.00883 U	0.0195	0.0203	0.0096	0.0243	0.00909 U	0.00752 U	0.0669	0.0117
Chrysene	NV	0.00883 U	0.0614	0.0473	0.0236	0.0331	0.00909 U	0.00752 U	0.101	0.0382
Dibenzo(a,h)anthracene	NV	0.00883 U	0.0254	0.027	0.00739 U	0.0258	0.00909 U	0.00752 U	0.00698 U	0.0127
Fluoranthene	3200 ^b	0.00883 U	0.13	0.0683	0.0472	0.0501	0.00909 U	0.00752 U	0.0411	0.816
Fluorene	3200 ^b	0.00883 U	0.00749 U	0.00751 U	0.00739 U	0.00737 U	0.00909 U	0.00752 U	0.0132	5.15
Indeno(1,2,3-cd)pyrene	NV	0.00883 U	0.0412	0.045	0.0266	0.0243	0.00909 U	0.00752 U	0.00698 U	0.0244
Naphthalene	5	0.00883 U	0.0195	0.018	0.0148	0.0155	0.00909 U	0.00752 U	0.023	0.243
Phenanthrene	NA	0.00883 U	0.0509	0.045	0.0369	0.0361	0.00909 U	0.00752 U	0.0411	9.61
Pyrene	2400 ^b	0.00883 U	0.207	0.0916	0.0805	0.0884	0.00909 U	0.00752 U	0.0941	0.51
cPAH TEC	0.1	0.007	0.094	0.086	0.059	0.068	0.008	0.006	0.130	0.039

Table 4
Polycyclic Aromatic Hydrocarbon Analytical Results in Soil (mg/kg)
Former Hambleton Lumber Mill
Washougal, Washington

	MTCA Method A Soil CULs— Unrestricted Use	Log Pond Overfill			Mill				
Location		SS-24	TP-24	TP-25	SS-21	TP-26	TP-27	TP-28	TP-29
Date Collected		9/8/2011	10/28/2011	10/28/2011	9/8/2011	10/28/2011	10/28/2011	10/28/2011	10/28/2011
Start Depth (ft)		0.5	0.8	0.8	0.0	0.8	0.8	0.8	0.8
End Depth (ft)		1.5	1.3	1.3	1.0	1.3	1.3	1.3	1.3
1-Methylnaphthalene	NV	0.00731 U	0.00782 U	0.00736 U	0.00805 U	0.00848 U	0.00827 U	0.00807 U	0.00782 U
2-Methylnaphthalene	NV	0.00877	0.00782 U	0.00736 U	0.00805 U	0.00848 U	0.00827 U	0.00807 U	0.00782 U
Acenaphthene	4800 ^b	0.00731 U	0.00782 U	0.00736 U	0.00805 U	0.00848 U	0.00827 U	0.00807 U	0.00782 U
Acenaphthylene	NA	0.00731 U	0.00782 U	0.00736 U	0.00805 U	0.00848 U	0.00827 U	0.00807 U	0.00782 U
Anthracene	24000 ^b	0.00731 U	0.0102	0.00736 U	0.00805 U	0.00848 U	0.00827 U	0.00807 U	0.0203
Benzo(a)anthracene	NV	0.0366 U	0.0164	0.00736 U	0.00805 U	0.00848 U	0.0223	0.00807 U	0.0586
Benzo(a)pyrene	0.1	0.0402	0.0203	0.00736 U	0.00805 U	0.00848 U	0.052	0.00967	0.0391
Benzo(b)fluoranthene	NV	0.0439	0.0289	0.00736 U	0.00805 U	0.00848 U	0.149	0.00807 U	0.186
Benzo(ghi)perylene	NA	0.0366 U	0.0242	0.00736 U	0.00805 U	0.00848 U	0.0752	0.00967	0.0774
Benzo(k)fluoranthene	NV	0.0366 U	0.00782 U	0.00736 U	0.00805 U	0.00848 U	0.0355	0.00807 U	0.0219
Chrysene	NV	0.0366 U	0.0211	0.00736 U	0.00805 U	0.00848 U	0.0479	0.00807 U	0.0774
Dibenzo(a,h)anthracene	NV	0.0366 U	0.00782 U	0.00736 U	0.00805 U	0.00848 U	0.0281	0.00887	0.00782 U
Fluoranthene	3200 ^b	0.027	0.0281	0.00736 U	0.00805 U	0.00848 U	0.0149	0.00807 U	0.138
Fluorene	3200 ^b	0.00731 U	0.00782 U	0.00736 U	0.00805 U	0.00848 U	0.00827 U	0.00807 U	0.00782 U
Indeno(1,2,3-cd)pyrene	NV	0.0366 U	0.0125	0.00736 U	0.00805 U	0.00848 U	0.0438	0.00807 U	0.0492
Naphthalene	5	0.0183	0.00782 U	0.00736 U	0.00805 U	0.00848 U	0.00827 U	0.00807 U	0.0117
Phenanthrene	NA	0.0263	0.0117	0.00736 U	0.00805 U	0.00848 U	0.00827 U	0.00807 U	0.0477
Pyrene	2400 ^b	0.0366 U	0.043	0.00736 U	0.00805 U	0.00848 U	0.014	0.00807 U	0.131
cPAH TEC	0.1	0.052	0.027	0.006	0.006	0.006	0.080	0.012	0.072

Table 5
Sediment Sample Results
Former Hambleton Lumber Mill
Washougal, Washington

Location	Ecology 2010 Freshwater Criteria		SED-01	SED-02	SED-03	SED-04
Date Collected	Sediment Quality Standard / Screening Level 1	Cleanup Screening Level / Screening Level 2	09/07/2011	09/07/2011	09/07/2011	09/07/2011
Depth (cm)			0 - 10	0 - 10	0 - 10	0 - 10
Metals (mg/kg)						
Antimony	0.3	12	0.107 UJ	0.145 J	0.103 UJ	0.153 J
Arsenic	14	120	3.12	5.75	6.15	5.14
Cadmium	2.1	5.4	0.0318 U	0.271	0.13	0.383
Chromium	72	82	6.45	13.9	12.3	15.1
Copper	400	1200	3.16	14.1	9.37	16
Lead	360	>1300	5.16 J	5.46 J	4.73 J	8.94 J
Mercury	0.66	0.8	0.0041 J	0.0384	0.0445	0.0314
Nickel	26	110	4.16	8.7	8.01	10.4
Silver	0.58	1.7	0.054	0.129	0.0971	0.16
Zinc	3200	>4200	23.4	109	81.1	99.8
PCBs (mg/kg)						
Aroclor 1016	NA	NA	0.000139 U	0.00019 U	0.000169 U	0.000186 U
Aroclor 1221	NA	NA	0.000139 U	0.00019 U	0.000169 U	0.000186 U
Aroclor 1232	NA	NA	0.000139 U	0.00019 U	0.000169 U	0.000186 U
Aroclor 1242	NA	NA	0.000139 U	0.00019 U	0.000169 U	0.000186 U
Aroclor 1248	NA	NA	0.000139 U	0.00019 U	0.000169 U	0.000186 U
Aroclor 1254	NA	NA	0.000139 U	0.00019 U	0.000169 U	0.000186 U
Aroclor 1260	NA	NA	0.000139 U	0.00019 U	0.000169 U	0.000186 U
Aroclor 1262	NA	NA	0.000139 U	0.00019 U	0.000169 U	0.000186 U
Aroclor 1268	NA	NA	0.000139 U	0.00019 U	0.000169 U	0.000186 U
Total Aroclors	0.11	2.5	0.000139 U	0.00019 U	0.000169 U	0.000186 U

Table 5
Sediment Sample Results
Former Hambleton Lumber Mill
Washougal, Washington

Location	Ecology 2010 Freshwater Criteria		SED-01	SED-02	SED-03	SED-04
Date Collected	Sediment Quality Standard / Screening Level 1	Cleanup Screening Level / Screening Level 2	09/07/2011	09/07/2011	09/07/2011	09/07/2011
Depth (cm)			0 - 10	0 - 10	0 - 10	0 - 10
SVOCs (mg/kg)						
1,2,4-Trichlorobenzene	NA	NA	0.0111 U	0.0151 U	0.0134 U	0.0148 U
1,2-Dichlorobenzene	NA	NA	0.0254 U	0.0347 U	0.0308 U	0.0339 U
1,4-Dichlorobenzene	NA	NA	0.0267 U	0.0365 U	0.0324 U	0.0356 U
2,4-Dimethylphenol	NA	NA	0.0116 U	0.0159 U	0.0141 U	0.0155 U
2-Methylphenol	NA	NA	0.0151 U	0.0206 U	0.0183 U	0.0201 U
3- & 4-Methylphenol	0.26	2.0	0.0156 U	0.0858	0.019 U	0.0209 U
Benzoic acid	2.9	3.8	0.0431 U	0.0588 U	0.0522 U	0.0575 U
Benzyl alcohol	NA	NA	0.042 U	0.0574 U	0.051 U	0.0561 U
Bis(2-ethylhexyl)phthalate	0.5	22	0.0181 U	0.0247 U	0.0219 U	0.0241 U
Butylbenzylphthalate	0.26*	0.37**	0.0111 U	0.0152 U	0.0135 U	0.0148 U
Dibenzofuran	0.2	0.68	0.00952 U	0.013 U	0.0115 U	0.0127 U
Diethylphthalate	NA	NA	0.014 U	0.0191 U	0.017 U	0.0187 U
Dimethyl phthalate	0.046*	0.44**	0.0137 U	0.0187 U	0.0166 U	0.0183 U
Di-n-butyl phthalate	0.38	0.45	0.0327 U	0.0447 U	0.0397 U	0.0437 U
Di-n-octyl phthalate	0.039	>1.1	0.013 U	0.0178 U	0.0158 U	0.0174 U
Hexachlorobenzene	NA	NA	0.0114 U	0.0155 U	0.0138 U	0.0152 U
Hexachlorobutadiene	NA	NA	0.016 U	0.0219 U	0.0194 U	0.0214 U
Hexachloroethane	NA	NA	0.026 U	0.0355 U	0.0315 U	0.0346 U
N-Nitrosodiphenylamine	NA	NA	0.0073 U	0.00996 U	0.00884 U	0.00973 U
Pentachlorophenol	1.2	>1.2	0.0496 U	0.0678 U	0.0601 U	0.0662 U
Phenol	0.12	0.21	0.0153 U	0.0209 U	0.0185 U	0.0204 U

Table 5
Sediment Sample Results
Former Hambleton Lumber Mill
Washougal, Washington

Location	Ecology 2010 Freshwater Criteria		SED-01	SED-02	SED-03	SED-04
Date Collected	Sediment Quality Standard / Screening Level 1	Cleanup Screening Level / Screening Level 2	09/07/2011	09/07/2011	09/07/2011	09/07/2011
Depth (cm)			0 - 10	0 - 10	0 - 10	0 - 10
LPAHs (mg/kg)						
Naphthalene	0.5*	1.31**	0.00182 J	0.00746 J	0.00331 J	0.00364 J
Acenaphthylene	0.47*	0.64**	0.000997 U	0.00136 U	0.00221 J	0.00133 U
Acenaphthene	1.06*	1.32**	0.00159 U	0.00498 J	0.00193 U	0.00212 U
Fluorene	1*	3**	0.000381 U	0.00622 J	0.000462 U	0.000508 U
Phenanthrene	6.1*	7.6**	0.000369 U	0.0187	0.011	0.00607 J
Anthracene	1.2*	1.58**	0.00273 J	0.00498 J	0.00331 J	0.00121 J
2-Methylnaphthalene	0.47*	0.56**	0.00144 U	0.00197 U	0.00175 U	0.00192 U
TOTAL LPAHs	6.6*	9.2**	0.00455	0.04234	0.01983	0.01092
HPAHs (mg/kg)						
Fluoranthene	11*	15**	0.00455 J	0.0261	0.0177	0.0109 J
Pyrene	8.8*	16**	0.00364 J	0.0299	0.0166	0.0121
Benzo(a)anthracene	4.26*	5.8**	0.00455 J	0.0112 J	0.011	0.0085 J
Chrysene	5.94*	6.4**	0.00546 J	0.0187	0.011	0.0085 J
Benzo(b)fluoranthene	11*	14**	0.00546 J	0.0187	0.0155	0.0121
Benzo(k)fluoranthene	11*	14**	0.00273 J	0.0112 J	0.00662 J	0.00486 J
Benzo(a)pyrene	3.3*	4.81**	0.000702 U	0.0149	0.0121	0.0085 J
Indeno(1,2,3-cd)pyrene	4.12*	5.3**	0.00094 U	0.00871 J	0.00662 J	0.00486 J
Dibenzo(a,h)anthracene	0.8*	0.84**	0.000877 U	0.0012 U	0.00106 U	0.00117 U
Benzo(ghi)perylene	4.02*	5.2**	0.00546 J	0.0124	0.00115 U	0.00607 J
TOTAL HPAHs	31.0*	54.8**	0.02639	0.32992	0.09714	0.07639
Total PAHs (mg/kg)						
Total PAHs	17	30	0.033459	0.5279	0.172952	0.10737
Petroleum Hydrocarbons (mg/kg)						
Diesel	340	510	8.2 U	117	9.93 U	10.9 U
Lube Oil	3600	8400	23.2 U	258	81.7	72.4

Table 5
Sediment Sample Results
Former Hambleton Lumber Mill
Washougal, Washington

Location	Ecology 2010 Freshwater Criteria		SED-01	SED-02	SED-03	SED-04
Date Collected	Sediment Quality Standard / Screening Level 1	Cleanup Screening Level / Screening Level 2	09/07/2011	09/07/2011	09/07/2011	09/07/2011
Depth (cm)			0 - 10	0 - 10	0 - 10	0 - 10
Physical Parameters						
Total Organic Carbon (mg/kg)	NA	NA	1180	5980	4710	5100
Total Solids (wt%)	NA	NA	79	59.5	57.6	57.3
Grain Size Analysis (%)						
Coarse Gravel	NA	NA	2.5	0	0	0
Gravel	NA	NA	25.4	22.7	0	0
TOTAL GRAVEL	NA	NA	27.9	22.7	0	0
Coarse Sand	NA	NA	5.3	11.3	0	0.3
Medium Sand	NA	NA	14	13.2	1.1	1.2
Fine Sand	NA	NA	51.2	34.6	48.9	24.4
Very Coarse Sand	NA	NA	0.4	9.7	24.8	30.5
TOTAL SAND	NA	NA	70.9	68.8	74.8	56.4
Coarse Silt	NA	NA	0	2.1	12.2	9.3
Medium Silt	NA	NA	0	1.1	3.2	12.1
Fine Silt	NA	NA	0.2	1.8	3.2	8.7
Very Fine Silt	NA	NA	0.5	1.8	2.1	4.9
TOTAL SILT	NA	NA	0.7	6.8	20.7	35
CLAY	NA	NA	0.5	1.8	4.3	8.2
NOTES:						
Non-detections reported to method detection limit.						
Screening level values from the Sediment Evaluation Framework from Ecology 2010 "Development of Benthic SQGs for Freshwater Sediments in Washington, Oregon, and Idaho" document, unless otherwise noted.						
*No value available. Ecology 2003 Freshwater Criteria lowest apparent effects threshold (LAET) used.						
**No value available. Ecology 2003 Freshwater Criteria second lowest apparent effects threshold (2LAET) used.						

Table 6
Groundwater Sample Results
Former Hambleton Lumber Mill
Washougal, Washington

Location	MTCA Method A Table Value for Groundwater	MW-02	MW-03	MW-04	MW-05	MW-06	MW-07
Date Collected		9/6/2011	9/6/2011	9/6/2011	9/7/2011	9/7/2011	10/28/2011
Field Parameters							
Depth-to-water (ft bgs)	NA	31.16	31.02	37.38	29.63	33.39	20.61
pH (pH Units)	NA	7.45	7.6	7.61	7.76	7.28	5.92
Temperature (degrees Celsius)	NA	18.83	17.8	19.04	16.97	15.47	14.53
Conductivity (µS/cm)	NA	185	121	364	146	107	91
Dissolved Oxygen (mg/L)	NA	0.95	5.16	0.06	0.65	1.29	0.64
Redox Potential (mV)	NA	4.3	-6.5	-26.2	22.5	51.2	-173.7
Turbidity (NTU)	NA	11.9	9.24	32	27	5.9	82.51
Metals (µg/L)							
Arsenic (Dissolved)	5	--	--	--	--	--	4.15
Arsenic	5	0.277	0.137	0.171	0.183	0.157	5.56
Barium	NV	--	--				56.9
Cadmium	5	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chromium	50	--	--	--	--	--	0.124
Lead	15	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.09
Mercury	2	--	--	--	--	--	0.1
Selenium	NV	--	--	--	--	--	1 U
Silver	NV	--	--	--	--	--	0.1 U
VOCs (µg/L)							
1,1,1,2-Tetrachloroethane	NV	--	--	--	--	--	1 U
1,1,1-Trichloroethane	200	--	--	--	--	--	1 U
1,1,2,2-Tetrachloroethane	NV	--	--	--	--	--	1 U
1,1,2-Trichloroethane	NV	--	--	--	--	--	1 U
1,1-Dichloroethane	NV	--	--	--	--	--	1 U
1,1-Dichloroethene	NV	--	--	--	--	--	1 U
1,1-Dichloropropene	NV	--	--	--	--	--	1 U
1,2,3-Trichlorobenzene	NV	--	--	--	--	--	1 U
1,2,3-Trichloropropane	NV	--	--	--	--	--	1 U
1,2,4-Trichlorobenzene	NV	--	--	--	--	--	1 U
1,2,4-Trimethylbenzene	NV	--	--	--	--	--	1 U

Table 6
Groundwater Sample Results
Former Hambleton Lumber Mill
Washougal, Washington

Location	MTCA Method A Table Value for Groundwater	MW-02	MW-03	MW-04	MW-05	MW-06	MW-07
Date Collected		9/6/2011	9/6/2011	9/6/2011	9/7/2011	9/7/2011	10/28/2011
VOCs (µg/L) (cont.)							
1,2-Dibromo-3-chloropropane	NV	--	--	--	--	--	1 U
1,2-Dibromoethane	0.01	--	--	--	--	--	1 U
1,2-Dichlorobenzene	NV	--	--	--	--	--	1 U
1,2-Dichloroethane	5	--	--	--	--	--	1 U
1,2-Dichloropropane	NV	--	--	--	--	--	1 U
1,3,5-Trimethylbenzene	NV	--	--	--	--	--	1 U
1,3-Dichlorobenzene	NV	--	--	--	--	--	1 U
1,3-Dichloropropane	NV	--	--	--	--	--	1 U
1,4-Dichlorobenzene	NV	--	--	--	--	--	1 U
2,2-Dichloropropane	NV	--	--	--	--	--	1 U
2-Butanone	NV	--	--	--	--	--	10 U
2-Chlorotoluene	NV	--	--	--	--	--	1 U
2-Hexanone	NV	--	--	--	--	--	10 U
4-Chlorotoluene	NV	--	--	--	--	--	1 U
4-Isopropyltoluene	NV	--	--	--	--	--	1 U
4-Methyl-2-pentanone	NV	--	--	--	--	--	20 U
Acetone	NV	--	--	--	--	--	50 U
Acrylonitrile	NV	--	--	--	--	--	5 U
Benzene	5	--	--	0.3 U	--	--	0.3 U
Bromobenzene	NV	--	--	--	--	--	1 U
Bromodichloro-methane	NV	--	--	--	--	--	1 U
Bromoform	NV	--	--	--	--	--	1 U
Bromomethane	NV	--	--	--	--	--	1 U
Carbon disulfide	NV	--	--	--	--	--	2 U
Carbon tetrachloride	NV	--	--	--	--	--	1 U
Chlorobenzene	NV	--	--	--	--	--	1 U
Chlorobromomethane	NV	--	--	--	--	--	1 U
Chloroethane	NV	--	--	--	--	--	1 U
Chloroform	NV	--	--	--	--	--	1 U
Chloromethane	NV	--	--	--	--	--	1 U

Table 6
Groundwater Sample Results
Former Hambleton Lumber Mill
Washougal, Washington

Location	MTCA Method A Table Value for Groundwater	MW-02	MW-03	MW-04	MW-05	MW-06	MW-07
Date Collected		9/6/2011	9/6/2011	9/6/2011	9/7/2011	9/7/2011	10/28/2011
VOCs (µg/L) (cont.)							
cis-1,2-Dichloroethene	NV	--	--	--	--	--	1 U
cis-1,3-Dichloropropene	NV	--	--	--	--	--	1 U
Dibromochloro- methane	NV	--	--	--	--	--	1 U
Dibromomethane	NV	--	--	--	--	--	1 U
Dichlorodifluoro- methane	NV	--	--	--	--	--	1 U
Ethylbenzene	700	--	--	1 U	--	--	1.21
Hexachlorobutadiene	NV	--	--	--	--	--	1 U
Isopropylbenzene	NV	--	--	--	--	--	1 U
m,p-Xylene	1000	--	--	2 U	--	--	2 U
Methyl tert-butyl ether	20	--	--	--	--	--	1 U
Methylene chloride	5	--	--	--	--	--	20 U
Naphthalene	20	--	--	--	--	--	1 U
n-Butylbenzene	NV	--	--	--	--	--	1 U
n-Propylbenzene	NV	--	--	--	--	--	1 U
o-Xylene	NV	--	--	1 U	--	--	1 U
sec-Butylbenzene	NV	--	--	--	--	--	1 U
Styrene	NV	--	--	--	--	--	1 U
tert-Butylbenzene	NV	--	--	--	--	--	1 U
Tetrachloroethene	5	--	--	--	--	--	1 U
Toluene	1000	--	--	1 U	--	--	7.32
trans-1,2-Dichloroethene	NV	--	--	--	--	--	1 U
trans-1,3- Dichloropropene	NV	--	--	--	--	--	1 U
Trichloroethene	5	--	--	--	--	--	1 U
Trichlorofluoro- methane	NV	--	--	--	--	--	1 U
Vinyl chloride	0.2	--	--	--	--	--	1 U

Table 6
Groundwater Sample Results
Former Hambleton Lumber Mill
Washougal, Washington

Location	MTCA Method A Table Value for Groundwater	MW-02	MW-03	MW-04	MW-05	MW-06	MW-07
Date Collected		9/6/2011	9/6/2011	9/6/2011	9/7/2011	9/7/2011	10/28/2011
SVOCs (µg/L)							
1,2,4-Trichlorobenzene	NV	--	--	--	--	--	0.963 UJ
1,2-Dichlorobenzene	NV	--	--	--	--	--	0.963 UJ
1,3-Dichlorobenzene	NV	--	--	--	--	--	0.963 UJ
1,4-Dichlorobenzene	NV	--	--	--	--	--	0.963 UJ
1-Methylnaphthalene	NV	--	--	--	--	--	0.963 UJ
2,3,4-Trichlorophenol	NV	--	--	--	--	--	0.963 UJ
2,3,5-Trichlorophenol	NV	--	--	--	--	--	0.963 UJ
2,3,6-Trichlorophenol	NV	--	--	--	--	--	0.963 UJ
2,4,5-Trichlorophenol	NV	--	--	--	--	--	4.82 UJ
2,4,6-Trichlorophenol	NV	--	--	--	--	--	4.82 UJ
2,4-Dichlorophenol	NV	--	--	--	--	--	2.89 UJ
2,4-Dimethylphenol	NV	--	--	--	--	--	0.963 UJ
2,4-Dinitrophenol	NV	--	--	--	--	--	9.63 UJ
2,4-Dinitrotoluene	NV	--	--	--	--	--	4.82 UJ
2,6-Dinitrotoluene	NV	--	--	--	--	--	4.82 UJ
2-Chloronaphthalene	NV	--	--	--	--	--	0.963 UJ
2-Chlorophenol	NV	--	--	--	--	--	0.963 UJ
2-Methylnaphthalene	NV	--	--	--	--	--	0.963 UJ
2-Methylphenol	NV	--	--	--	--	--	1.93 UJ
2-Nitroaniline	NV	--	--	--	--	--	4.82 UJ
2-Nitrophenol	NV	--	--	--	--	--	4.82 UJ
3,3-Dichlorobenzidine	NV	--	--	--	--	--	4.82 UJ
3-Nitroaniline	NV	--	--	--	--	--	5.78 UJ
4,6-Dinitro-2-methylphenol	NV	--	--	--	--	--	9.63 UJ
4-Bromophenylphenyl ether	NV	--	--	--	--	--	0.963 UJ
4-Chloro-3-methylphenol	NV	--	--	--	--	--	1.93 UJ
4-Chloroaniline	NV	--	--	--	--	--	2.89 UJ
4-Chlorophenylphenyl ether	NV	--	--	--	--	--	0.963 UJ

Table 6
Groundwater Sample Results
Former Hambleton Lumber Mill
Washougal, Washington

Location	MTCA Method A Table Value for Groundwater	MW-02	MW-03	MW-04	MW-05	MW-06	MW-07
Date Collected		9/6/2011	9/6/2011	9/6/2011	9/7/2011	9/7/2011	10/28/2011
SVOCs (µg/L) (cont.)							
4-Nitroaniline	NV	--	--	--	--	--	4.82 UJ
4-Nitrophenol	NV	--	--	--	--	--	4.82 UJ
Acenaphthene	NV	--	--	--	--	--	0.963 UJ
Acenaphthylene	NV	--	--	--	--	--	0.963 UJ
Anthracene	NV	--	--	--	--	--	0.963 UJ
Benzo(a)anthracene	NV	--	--	--	--	--	0.963 UJ
Benzo(a)pyrene	0.1	--	--	--	--	--	0.963 UJ
Benzo(b)fluoranthene	NV	--	--	--	--	--	0.963 UJ
Benzo(ghi)perylene	NV	--	--	--	--	--	0.963 UJ
Benzo(k)fluoranthene	NV	--	--	--	--	--	0.963 UJ
Benzoic acid	NV	--	--	--	--	--	19.3 UJ
Benzyl alcohol	NV	--	--	--	--	--	4.82 UJ
Bis(2-chloro-1-methylethyl) ether	NV	--	--	--	--	--	0.963 UJ
Bis(2-chloroethoxy) methane	NV	--	--	--	--	--	0.963 UJ
Bis(2-chloroethyl) ether	NV	--	--	--	--	--	1.93 UJ
Bis(2-ethylhexyl) phthalate	NV	--	--	--	--	--	0.963 UJ
Butylbenzylphthalate	NV	--	--	--	--	--	0.963 UJ
Carbazole	NV	--	--	--	--	--	0.963 UJ
Chrysene	NV	--	--	--	--	--	0.963 UJ
Cresols	NV	--	--	--	--	--	9.63 UJ
Dibenzo(a,h) anthracene	NV	--	--	--	--	--	0.963 UJ
Dibenzofuran	NV	--	--	--	--	--	0.963 UJ
Diethylphthalate	NV	--	--	--	--	--	0.963 UJ
Dimethyl phthalate	NV	--	--	--	--	--	0.963 UJ
Di-n-butyl phthalate	NV	--	--	--	--	--	0.963 UJ
Di-n-octyl phthalate	NV	--	--	--	--	--	0.963 UJ
Fluoranthene	NV	--	--	--	--	--	0.963 UJ
Fluorene	NV	--	--	--	--	--	0.963 UJ

Table 6
Groundwater Sample Results
Former Hambleton Lumber Mill
Washougal, Washington

Location	MTCA Method A Table Value for Groundwater	MW-02	MW-03	MW-04	MW-05	MW-06	MW-07
Date Collected		9/6/2011	9/6/2011	9/6/2011	9/7/2011	9/7/2011	10/28/2011
SVOCs (µg/L) (cont.)							
Hexachlorobenzene	NV	--	--	--	--	--	0.963 UJ
Hexachlorobutadiene	NV	--	--	--	--	--	1.93 UJ
Hexachlorocyclo- pentadiene	NV	--	--	--	--	--	4.82 UJ
Hexachloroethane	NV	--	--	--	--	--	1.93 UJ
Hydrazine, 1,2- diphenyl	NV	--	--	--	--	--	4.82 UJ
Indeno(1,2,3-cd) pyrene	NV	--	--	--	--	--	0.963 UJ
Isophorone	NV	--	--	--	--	--	0.963 UJ
Naphthalene	20	--	--	--	--	--	0.963 UJ
Nitrobenzene	NV	--	--	--	--	--	0.963 UJ
N-Nitroso- dimethylamine	NV	--	--	--	--	--	0.963 UJ
N-Nitroso- diphenylamine	NV	--	--	--	--	--	0.963 UJ
N-Nitroso- dipropylamine	NV	--	--	--	--	--	1.93 UJ
Pentachlorophenol	NV	--	--	--	--	--	4.82 UJ
Phenanthrene	NV	--	--	--	--	--	0.963 UJ
Phenol	NV	--	--	--	--	--	1.93 UJ
Pyrene	NV	--	--	--	--	--	0.963 UJ
Pyridine	NV	--	--	--	--	--	4.82 UJ

Table 6
Groundwater Sample Results
Former Hambleton Lumber Mill
Washougal, Washington

Location	MTCA Method A Table Value for Groundwater	MW-02	MW-03	MW-04	MW-05	MW-06	MW-07
Date Collected		9/6/2011	9/6/2011	9/6/2011	9/7/2011	9/7/2011	10/28/2011
PAHs (µg/L)							
1-Methylnaphthalene	NV	--	--	0.048 U	--	--	--
2-Methylnaphthalene	NV	--	--	0.048 U	--	--	--
Acenaphthene	NV	--	--	0.048 U	--	--	0.0482 UJ
Acenaphthylene	NV	--	--	0.048 U	--	--	0.0482 UJ
Anthracene	NV	--	--	0.048 U	--	--	0.0482 UJ
Benzo(a)anthracene	NV	--	--	0.048 U	--	--	0.0482 UJ
Benzo(a)pyrene	0.1	--	--	0.048 U	--	--	0.0482 UJ
Benzo(b)fluoranthene	NV	--	--	0.048 U	--	--	0.0482 UJ
Benzo(ghi)perylene	NV	--	--	0.048 U	--	--	0.0482 UJ
Benzo(k)fluoranthene	NV	--	--	0.048 U	--	--	0.0482 UJ
Chrysene	NV	--	--	0.048 U	--	--	0.0482 UJ
Dibenzo(a,h) anthracene	NV	--	--	0.048 U	--	--	0.0482 UJ
Fluoranthene	NV	--	--	0.048 U	--	--	0.0482 UJ
Fluorene	NV	--	--	0.048 U	--	--	0.0482 UJ
Indeno(1,2,3-cd) pyrene	NV	--	--	0.048 U	--	--	0.0482 UJ
Naphthalene	160	--	--	0.048 U	--	--	0.0482 UJ
Phenanthrene	NV	--	--	0.048 U	--	--	0.0771 J
Pyrene	NV	--	--	0.048 U	--	--	0.0482 UJ
TPH (µg/L)							
Diesel	500	76.5 U	79.1 U	128	76.2 U	76.2 U	588
Gasoline	100	100 U	100 U	100 U	100 U	100 U	100 U
Lube Oil	500	191 U	198 U	190 U	190 U	190 U	591

Table 7
Remedial Cost Estimate—Alternative 1
Former Hambleton Lumber Mill
Washougal, Washington

Remedy Components

- 1 Remove log pond liquid and dispose of off site.
- 2 Excavate log pond sediment and dispose of off site.
- 3 Backfill log pond with clean, imported material.
- 4 Remove impacted stockpiled materials and dispose of off site.
- 5 Excavate impacted soil from aggregate recycling area and dispose of off site.
- 6 Screen impacted material to remove large, inert debris and deposits (e.g., rocks, concrete debris). Oversize debris will be used to backfill remedial excavations; material passing through the screen will be characterized and disposed of off site.
- 7 Clean, imported material will be used to backfill remedial excavations.
- 8 Environmental covenant to prohibit the use of groundwater beneath the site.

Assumptions

- 1 Density of soil = 1.45 tons/CY.
- 2 Density of select borrow = 1.6 tons/CY.
- 3 Log pond is assumed to contain 330,000 gallons of liquid that will require off-site disposal.
- 4 Log pond is assumed to be disposed of at Pacific Power Vac in Portland, OR.
- 5 Volume of impacted stockpiled material is estimated based on field observations.
- 6 Reinforced concrete slab will be demolished to facilitate excavation of underlying impacted soil.
- 7 Remedial excavations will be backfilled with clean, imported material and compacted to 92% compaction, based on the Modified Proctor Test.
- 8 For budgeting purposes, it was assumed that 10% of the screened material will be oversize, inert debris that will be placed back in the remedial excavations under clean, imported fill.
- 9 Excavated material will be characterized before off-site disposal. For cost estimating purposes, it was assumed that the material would not be hazardous or special-listed, and disposal cost assumes disposal at a Subtitle D Landfill.
- 10 20% contingency.

Item	Description	Quantity	Units	Unit Cost	Total Cost
Remedial Action					
	Mobilization	1	LS	\$45,000	\$45,000
	Erosion and Sediment Control	1	LS	\$13,500	\$13,500
	Log Pond				
	Removal of log pond liquid	1	LS	\$28,000	\$28,000
	Transport and disposal of liquid	330,000	GAL	\$0.19	\$62,700
	Excavate log pond sediment	3,300	CY	\$14.19	\$46,827
	Imported backfill	9,800	CY	\$11.52	\$112,896
	Backfill and compact log pond	9,800	CY	\$3.60	\$35,280
	Transport and disposal of log pond sediment	5,400	TON	\$36.14	\$195,156
	Excavation				
	Reinforced concrete slab demolition	256	SY	\$19.08	\$4,884
	Excavate impacted material	5,800	CY	\$5.65	\$32,770
	Screen excavated material	5,800	CY	\$5.43	\$31,494
	Imported backfill	5,200	CY	\$11.52	\$59,904
	Backfill and compact excavation	5,200	CY	\$3.60	\$18,720
	Transport and disposal of excavated material	8,505	TON	\$35.85	\$304,904
	Site Restoration				
	Seeding and fertilizing	6,367	SY	\$5.68	\$36,176
Remedial Action Subtotal					\$1,028,210

Table 7
Remedial Cost Estimate—Alternative 1
Former Hambleton Lumber Mill
Washougal, Washington

Item	Description	Quantity	Units	Unit Cost	Total Cost
Professional Services					
	Permitting and agency negotiations	1	LS	\$5,000	\$5,000
	Environmental covenant	1	LS	\$2,000	\$2,000
	Survey	1	LS	\$5,000	\$5,000
	Remedial design	1	LS	\$15,000	\$15,000
	Procurement	1	LS	\$2,000	\$2,000
	Construction oversight	1	LS	\$13,000	\$13,000
	Sampling analytical cost	1	LS	\$116,500	\$116,500
	Reporting	1	LS	\$10,000	\$10,000
Professional Services Subtotal					\$168,500
Remedial Action and Professional Services Subtotal					\$1,196,710
Contingency				20%	\$239,300
TOTAL COST					\$1,436,010

Table 8
Remedial Cost Estimate—Alternative 2
Former Hambleton Lumber Mill
Washougal, Washington

Remedy Components

- 1 Remove log pond liquid and dispose of off site.
- 2 Consolidate impacted material stockpiled on site in log pond.
- 3 Fill log pond with non-impacted material stockpiled on site and clean, imported backfill.
- 4 Cap the aggregate recycling area and log pond/mill area with a minimum 2 feet of clean, imported soil.
A minimum 6-inch aggregate base and 3-inch asphalt cap may be used in lieu of soil cap.
- 5 Environmental covenant to prohibit the use of groundwater beneath the site.
- 6 Soil management plan documenting soil contamination under the cap and outlining soil handling procedures.

Assumptions

- 1 Density of soil = 1.45 tons/CY.
- 2 Density of select borrow = 1.6 tons/CY.
- 3 Log pond is assumed to contain 330,000 gallons of liquid that will require off-site disposal.
- 4 Log pond is assumed to be disposed of at Pacific Power Vac in Portland, OR.
- 5 Volumes of impacted and non-impacted stockpiled materials are estimated based on field observations.
- 9 Discount rate of 2.7% based on 20-year real interest OMB Circular A-94 12/8/09.
- 10 20% contingency.

Item	Description	Quantity	Units	Unit Cost	Total Cost
Remedial Action					
	Mobilization	1	LS	\$14,000	\$14,000
	Erosion and Sediment Control	1	LS	\$3,000	\$3,000
	Log Pond				
	Removal of log pond liquid	1	LS	\$35,000	\$35,000
	Transport and disposal of liquid	330,000	GAL	\$0.20	\$66,000
	Fill log pond with on-site materials and compact	3,340	CY	\$3.60	\$12,024
	Clean, imported backfill purchase	3,180	CY	\$11.52	\$36,634
	Imported backfill placement and compaction	3,180	CY	\$3.60	\$11,448
	Soil Cap				
	Demarcation geotextile	6,500	SY	\$0.52	\$3,376
	Clean, imported soil purchase	4,340	CY	\$11.52	\$49,997
	Cap placement and compaction	4,340	CY	\$3.60	\$15,624
	Site Restoration				
	Seeding and fertilizing	6,500	SY	\$5.68	\$36,932
Remedial Action Subtotal					\$284,030
Professional Services					
	Permitting and agency negotiations	1	LS	\$7,000	\$7,000
	Soil management and cap maintenance plan	1	LS	\$10,000	\$10,000
	Environmental covenant	1	LS	\$5,000	\$5,000
	Survey	1	LS	\$2,500	\$2,500
	Remedial design	1	LS	\$15,000	\$15,000
	Procurement	1	LS	\$5,000	\$5,000
	Geotechnical design support	1	LS	\$3,000	\$3,000
	Construction oversight	1	LS	\$11,000	\$11,000
	Reporting	1	LS	\$5,000	\$5,000
Professional Services Subtotal					\$63,500

Table 8
Remedial Cost Estimate—Alternative 2
Former Hambleton Lumber Mill
Washougal, Washington

Item	Description	Quantity	Units	Unit Cost	Total Cost
<i>Remedial Action and Professional Services Subtotal</i>					\$347,530
<i>Contingency</i>				20%	\$69,500
Monitoring and Maintenance					
	Annual inspection	\$1,000	event	1	\$1,000
	Cap maintenance (years 5, 10, 15, and 20)	\$2,000	event	1	\$2,500
<i>Present Value of Ongoing Costs Total</i>					\$22,000
TOTAL ESTIMATED PRESENT VALUE					\$439,030

FIGURES





Site Address: 335 South A Street, Washougal, Washington
 Source: US Geological Survey (1990) 7.5-minute
 topographic quadrangle: Camas & Washougal
 Section 12, Township 1 N, Range 3E

Figure 1
Site Location

Legend

 Site Boundary

Port of Camas-Washougal
 Washougal, Washington



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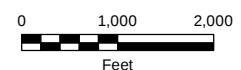




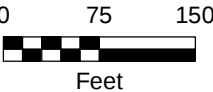
Figure 2
Site Features

Port of Camas-Washougal
Washougal, Washington

Legend

- Catch Basin
- Outfall
- Potential Dry Well
- Monitoring Well
- Stockpile
- Fill
- Potential Former UST
- Aggregate Recycling Area
- Former Swale
- Current and Former Site Buildings
- Property Boundary

Notes:
1. Site features were interpreted from aerial photography and gathered from Figures 2, 3, and 11 of the Initial Independent Cleanup Report and Risk Assessment by Certified Environmental Consulting, Inc. and Evren Northwest (October 16, 2009).
2. Potential Fill based on site contact interview.
3. UST = Underground Storage Tank.



Source: Aerial photograph obtained from ESRI, Inc. ArcGIS Online/Bing Maps.

Path: X:\0229.04\1.2 RIFS\Projects\Fig3- Historical Soil Sample Locations and Exceedances.mxd
Project: 0229.04.03
Produced By: J. Schane
Approved By: J. Maul
Print Date: 1/13/2012

Figure 3
Historical Soil Sample
Locations and Exceedances
Port of Camas-Washougal
Washougal, Washington



Legend

Soil Exceedance

Depth (ft)

TPH Metals PAH VOC PCBs

Boring

Surface Soil Sample

Magnetic Anomaly

Test Pit

Catch Basin

Outfall

Potential Dry Well

Aggregate Recycling Area

Stockpile

Fill

Current and Former Site Buildings

Property Boundary

Contaminant Index
TPH = Total Petroleum Hydrocarbons
Metals = Lead and/or Mercury
PAH = Polycyclic Aromatic Hydrocarbons
VOC = Volatile Organic Compounds
PCB = Polychlorinated Biphenyls

- Notes:**
- Sample locations and site features were interpreted from aerial photography and gathered from Figures 2, 3, and 11 and Tables 1 and 2 of the Initial Independent Cleanup Report and Risk Assessment by Certified Environmental Consulting NW (CEC), and Evren Northwest (October 16, 2009).
 - Potential Fill based on site contact interview.
 - UST = Underground Storage Tank.
 - Previous sample results for B-1, Potential UST Pit B-1, and magnetic anomaly are inconsistent between Figures and Sample Result Tables from the CEC 2009 report. At least one sample taken from one of these locations contained TPH, PAHs, and/or VOCs exceeding MTCA Method A Cleanup Levels.
 - Sample results compared to Washington Model Toxics Control Act (MTCA) Method A Soil Cleanup Values.



Source: Aerial photograph obtained from ESRI, Inc. ArcGIS Online/Bing Maps.

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Figure 4
Soil Sample
Locations and Exceedances
Port of Camas-Washougal
Washougal, Washington

Legend

2011 Sample Locations

- Surface Soil Sample
- Composite Sample
- Test Pit
- Soil Exceedance Depth (ft)**

Historical Sample Locations

- Boring
- Surface Soil Sample
- Composite Sample
- Test Pit
- Magnetic Anomaly

TPH

Metals

PAH

VOC

PCBs

Catch Basin

Outfall

Potential Dry Well

Aggregate Recycling Area

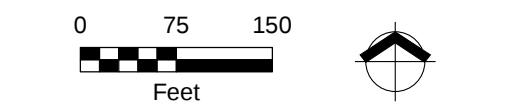
Stockpile

Fill

Site Boundary

Contaminant Index
TPH = Total Petroleum Hydrocarbons
Metals = Lead and/or Mercury
PAH = Polycyclic Aromatic Hydrocarbons
VOC = Volatile Organic Compounds
PCB = Polychlorinated Biphenyls

- Notes:**
1. Sample locations and site features were interpreted from aerial photography and gathered from Figures 2, 3, and 11 and Tables 1 and 2 of the Initial Independent Cleanup Report and Risk Assessment by Certified Environmental Consulting NW (CEC), and Evren Northwest (October 16, 2009).
 2. Potential Fill based on site contact interview.
 3. UST = Underground Storage Tank.
 4. Sample results compared to Washington Model Toxics Control Act (MTCA) Method A Soil Cleanup Values.



Source: Aerial photograph obtained from ESRI, Inc. ArcGIS Online/Bing Maps.



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.



Figure 5
Sediment Sample
Locations and Exceedances

Port of Camas-Washougal
Washougal, Washington

Legend

- Exceedances**
- TPH
 - VOC
 - 2011 Sediment Sample Location
 - Historical Sediment Sample Location
 - Catch Basin
 - Outfall
 - Potential Dry Well
 - Stockpile
 - Fill Material
 - Aggregate Recycling Area
 - Current and Former Site Buildings
 - Site Boundary

Contaminant Index
TPH = Total Petroleum Hydrocarbons
VOC = Volatile Organic Compounds

- Notes:**
- Sample locations and site features were interpreted from aerial photography and gathered from Figures 2, 3, and 11 and Tables 1 through 13 of the Initial Independent Cleanup Report and Risk Assessment by Certified Environmental Consulting NW (CEC), and Evren Northwest (October 16, 2009).
 - Potential Fill based on site contact interview.
 - UST = Underground Storage Tank.
 - Sediment sample results in Columbia River samples compared to Ecology 2010 or Freshwater Criteria Screening levels. Sediment sample results in log pond compared to Washington Model Toxics Control Act (MTCA) Method A Soil Cleanup Values.



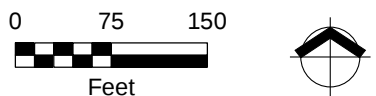
Figure 6
Groundwater and Surface
Water Sample Locations and
Exceedances
Port of Camas-Washougal
Washougal, Washington

Legend

- Exceedances**
- TPH
 - Metals
 - PAH
 - Catch Basin
 - Outfall
 - Potential Dry Well
 - Stockpile
 - Fill Material
 - Aggregate Recycling Area
 - Current and Former Site Buildings
 - Site Boundary
- 2011 Monitoring Well
- Historical Monitoring Well
- Historical Surface Water Sample

Contaminant Index
TPH = Total Petroleum Hydrocarbons
Metals = Lead and/or Mercury
PAH = Polycyclic Aromatic Hydrocarbons

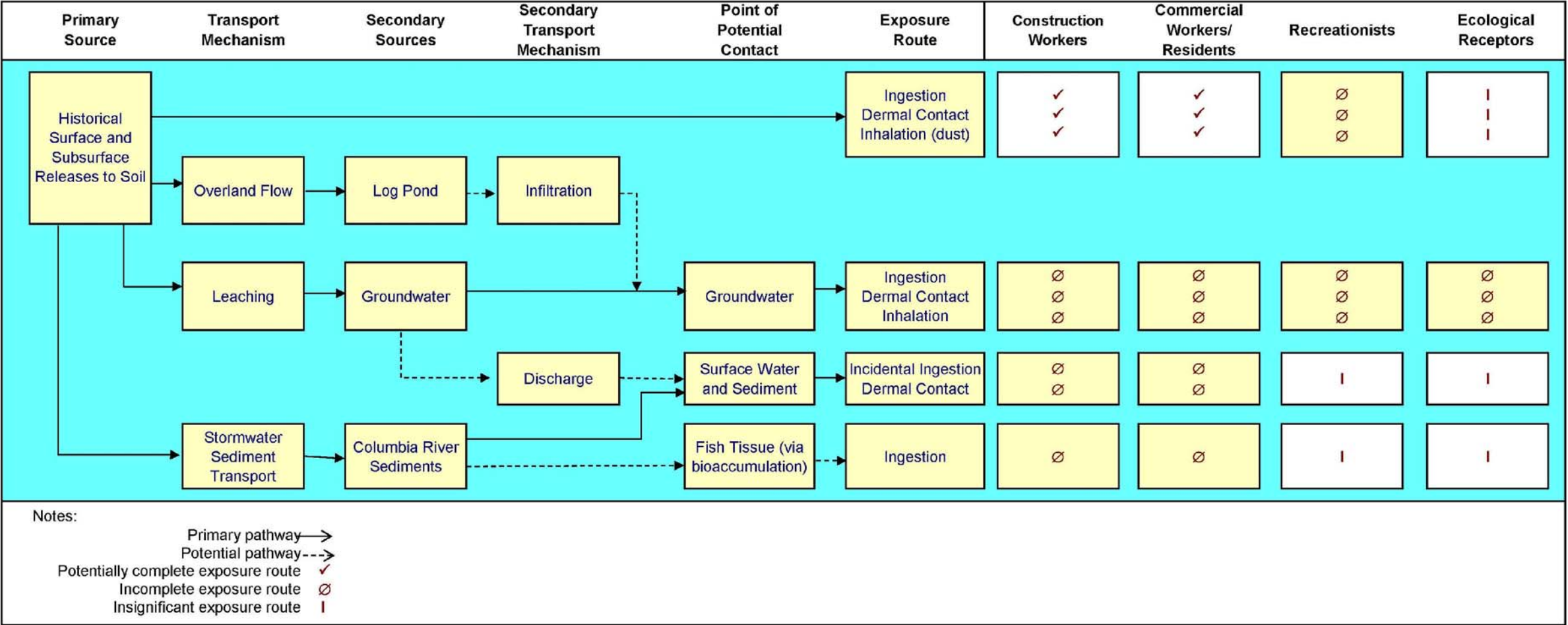
- Notes:**
- Exceedances shown represent the Washington Model Toxics Control Act (MTCA) Method A Table Values.
 - Sample locations and site features were interpreted from aerial photography and gathered from Figures 2, 3, and 11 and Tables 1 and 2 of the Initial Independent Cleanup Report and Risk Assessment by Certified Environmental Consulting NW (CEC), and Evren Northwest (October 16, 2009).



Source: Aerial photograph obtained from ESRI, Inc. ArcGIS Online/Bing Maps.

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Print Date: 1/11/2012
Approved By: J. Schane
Produced By: J. Schane
Project: 0229_04.03

Figure 7
Conceptual Site Model of
Potential Human and
Ecological Exposure Pathways
Port of Camas-Washougal
Washougal, Washington



APPENDIX A

BORING LOGS AND WELL INSTALLATION LOG



Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

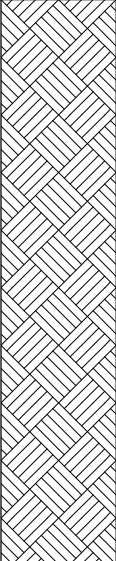
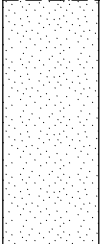
Project Number
0229.04.03

Well Number
TP-01

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **09/06/11 to 09/06/11**
Driller/Equipment **NRCES/Excavator**
Geologist/Engineer **Christina Johnson**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **8.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data				Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)				
1				G		TP-1-3 (4.6 ppm)				0.0 to 4.5 feet: GRAVELLY SAND with SILT (SW); dark brown; 20% fines; 50% sand; 30% gravel and cobbles, angular to subangular; occasional wood pieces; organic-like odor; moist.
2										
3										
4										@ 3.0 feet: Gravel and cobbles increase, become more angular.
5				G		(2.4 ppm)				@ 4.0 feet: Odor.
6										
7										
8										4.5 to 8.0 feet: SAND (SP); dark gray; 100% sand; moist.

Total depth: 8.0 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Photoionization detector readings in parts per million (ppm), as shown in parentheses.
 - 3) Samples collected approximately 0.5 foot above and below interval noted above.
 - 4) G = Grab sample.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

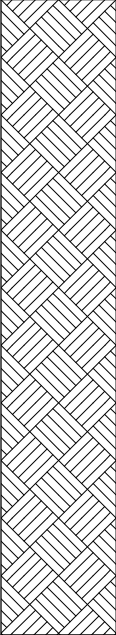
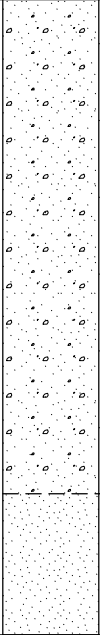
Project Number
0229.04.03

Well Number
TP-02

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **09/06/11 to 09/06/11**
Driller/Equipment **NRCES/Excavator**
Geologist/Engineer **Christina Johnson**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **9.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data				Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)				
1										0.0 to 7.0 feet: GRAVELLY SAND with SILT (SW); dark gray; 20% fines, low plasticity; 50% sand; 20% gravel; 10% cobble; some wood pieces; organic-like odor; moist. @3.0 feet: Increase sand with some silt. @ 6.5 feet: Concrete block with rebar. Moved test pit. 7.0 to 9.0 feet: SAND (SP); light brown; 100% sand; moist.
2										
3				G		TP-2-2 (2.5 ppm)				
4				G		TP-2-3.5				
5										
6										
7										
8										
9										

Total depth: 9.0 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Sample TP-2-3.5 collected 2.0 to 5.0 feet bgs.
 - 3) Samples collected approximately 0.5 foot above and below interval noted above.
 - 4) Photoionization detector readings in parts per million (ppm), as shown in parentheses.
 - 5) G = Grab sample.

Maul Foster & Alongi, Inc.		Geologic Borehole Log/Well Construction									
		Project Number 0229.04.03				Well Number TP-03			Sheet 1 of 1		
Project Name		Port of Camas Washougal				TOC Elevation (feet)					
Project Location		Washougal, WA				Surface Elevation (feet)					
Start/End Date		09/06/11 to 09/06/11				Northing					
Driller/Equipment		NRCES/Excavator				Easting					
Geologist/Engineer		Christina Johnson				Hole Depth				14.0-feet	
Sample Method		Grab				Outer Hole Diam				-inch	
Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data			Blows/6"	Lithologic Column	Soil Description		
				Collection Method	Number	Name (Type)					
1									0.0 to 3.5 feet: GRAVELLY SAND (SW); 75% sand; 25% gravel and cobble; some wood pieces; moist.		
2									@2.0 feet: Electrical wire (refuse).		
3				G		(0.0 ppm)					
4				G		TP-3-3			3.5 to 14.0 feet: SAND with GRAVEL (SW); light brown; 85% sand; 15% gravel and cobble, subround; moist.		
5											
6											
7											
8											
9											
10											
11											
12											
13											
14									@ 14 feet: Cobble.		
Total depth: 14.0 feet bgs.											

NOTES:

- 1) Test pit backfilled with overburden and wheel-compacted.
- 2) Photoionization detector readings in parts per million (ppm), as shown in parentheses.
- 3) Samples collected approximately 0.5 foot above and below interval noted.
- 4) G = Grab sample.

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NOTES:

- 1) Test pit backfilled with overburden and wheel-compacted.
- 2) Photoionization detector readings in parts per million (ppm), as shown in parentheses.
- 3) Samples collected approximately 0.5 foot above and below interval noted.
- 4) G = Grab sample.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number
0229.04.03

Well Number
TP-04

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **09/06/11 to 09/06/11**
Driller/Equipment **NRCES/Excavator**
Geologist/Engineer **Christina Johnson**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **8.5-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data				Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)				
1										0.0 to 5.0 feet: GRAVELLY SAND (SW); 70% sand; 30% gravel and cobble; occasional concrete slab, asphalt, and wood; moist.
2										
3				G		(0.4 ppm)				@2.5 feet: Strong unidentified odor.
4				G		TP-4-3				@4.0 feet: Brown.
5										
6										5.0 to 8.5 feet: SAND (SW); light yellowish brown; 85% sand; 15% cobble; no odor; moist.
7										
8										

Total depth: 8.5 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Photoionization detector readings in parts per million (ppm), as shown in parentheses.
 - 3) Sample TP-4-3 collected from 2.0 to 4.5 feet bgs.
 - 4) Samples collected approximately 0.5 foot above and below interval noted.
 - 5) G = Grab sample.

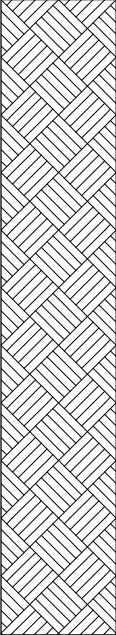
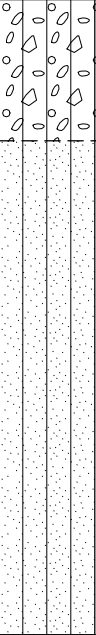
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Maul Foster & Alongi, Inc.		Geologic Borehole Log/Well Construction										
		Project Number 0229.04.03				Well Number TP-05			Sheet 1 of 1			
Project Name Port of Camas Washougal		Project Location Washougal, WA				TOC Elevation (feet)						
Start/End Date 09/06/11 to 09/06/11		Driller/Equipment NRCES/Excavator				Surface Elevation (feet)						
Geologist/Engineer Christina Johnson		Sample Method Grab				Northing			Easting			
						Hole Depth			17.0-feet			
						Outer Hole Diam			-inch			
Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Number	Name (Type)	Blows/6"	Lithologic Column	Soil Description			
1									0.0 to 3.0 feet: SILT with GRAVEL (ML); brown; 80% fines, non-plastic; 20% gravel and cobble; occasional brick; moist.			
2												
3												
4										3.0 to 13.5 feet: WOODY DEBRIS; 100% stumps, bark, wood pieces; some organic silt and clay; occasional metal bands; organic-like odor; moist.		
5												
6										@6.0 feet: Wet.		
7												
8					G		TP-5-8					
9												
10												
11												
12												
13												
14										13.5 to 17.0 feet: SILTY SAND (SM); grayish green; 30% fines; 70% sand; unidentified odor; wet.		
15												
16												
17					G		TP-5-16.5					
Total depth: 17.0 feet bgs.												
NOTES: 1) Test pit backfilled with overburden and wheel-compacted. 2) Sample TP-5-8 collected 3.0 to 13.0 feet bgs. 3) Sample TP-5-16.5 collected 16.0 to 17.0 feet bgs. 4) G = Grab sample.												

Maul Foster & Alongi, Inc.		Geologic Borehole Log/Well Construction								
		Project Number 0229.04.03			Well Number TP-06			Sheet 1 of 1		
Project Name		Port of Camas Washougal				TOC Elevation (feet)				
Project Location		Washougal, WA				Surface Elevation (feet)				
Start/End Date		09/06/11 to 09/06/11				Northing				
Driller/Equipment		NRCES/Excavator				Easting				
Geologist/Engineer		Christina Johnson				Hole Depth 16.0-feet				
Sample Method		Grab				Outer Hole Diam -inch				
Depth (feet, BGs)	Well Details		Interval	Percent Recovery	Sample Data			Blows/6"	Lithologic Column	Soil Description
					Collection Method	Number	Name (Type)			
1										0.0 to 15.0 feet: SAND (SW); brownish gray; 100% sand; contains clay, brick, bottle, and metal pieces; moist. @12.0 to 15.0 feet: Observed decomposed wood; slight organic-like odor. 15.0 to 16.0 feet: SAND (SW); brown; 10% fines; 90% sand; moist. Total depth: 16.0 feet bgs.
2										
3										
4										
5										
6										
7										
8				G		TP-6-8				
9										
10										
11										
12										
13										
14										
15										
16										
NOTES:										
1) Test pit backfilled with overburden and wheel-compacted.										
2) Sample TP-6-8 collected 3.0 to 13.0 feet bgs.										
3) G = Grab sample.										

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NOTES: 1) Test pit backfilled with overburden and wheel-compacted.
2) Sample TP-6-8 collected 3.0 to 13.0 feet bgs.
3) G = Grab sample.

Maul Foster & Alongi, Inc.		Geologic Borehole Log/Well Construction									
		Project Number 0229.04.03				Well Number TP-07			Sheet 1 of 1		
Project Name		Port of Camas Washougal					TOC Elevation (feet)				
Project Location		Washougal, WA					Surface Elevation (feet)				
Start/End Date		09/06/11 to 09/06/11					Northing				
Driller/Equipment		NRCES/Excavator					Easting				
Geologist/Engineer		Christina Johnson					Hole Depth		9.0-feet		
Sample Method		Grab					Outer Hole Diam		-inch		
Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data				Blows/6"	Lithologic Column	Soil Description	
				Collection Method	Number	Name (Type)					
1				G		TP-7-2			0.0 to 1.0 feet: GRAVEL with SILT (GM); light brownish gray; 20% fines; 80% gravel, angular; moist.		
@ 1.0 to 2.0 feet: contains woody debris; slight organic-like odor.											
2									2.0 to 9.0 feet: SILTY SAND (SM); brown; 30% fines; 70% sand; moist.		
3											
4											
5											
6											
7											
8											
9											
Total depth: 9.0 feet bgs.											
NOTES: 1) Test pit backfilled with overburden and wheel-compacted. 2) Sample collected 1.0 foot above interval noted. 3) G = Grab sample.											

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

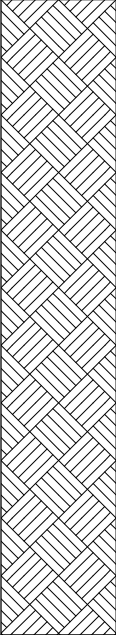
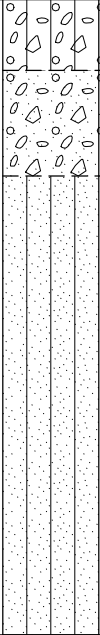
Project Number
0229.04.03

Well Number
TP-08

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **09/06/11 to 09/06/11**
Driller/Equipment **NRCES/Excavator**
Geologist/Engineer **Christina Johnson**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **9.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data			Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)			
1				G		TP-8-1.5			0.0 to 1.0 feet: GRAVEL with SILT (GM); light brown; 20% fines; 80% gravel, angular; dry.
2									1.0 to 2.5 feet: SANDY GRAVEL with SILT (GW); light brown; 20% fines; 30% sand; 50% gravel; dry.
3									2.5 to 9.0 feet: SILTY SAND (SM); brown; 30% fines; 70% sand; moist.
4									
5									
6									
7									
8									
9									

Total depth: 9.0 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Sample collected approximately 0.5 foot above and below interval noted.
 - 3) G = Grab sample.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number
0229.04.03

Well Number
TP-09

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **09/07/11 to 09/07/11**
Driller/Equipment **NRCES/Excavator**
Geologist/Engineer **Christina Johnson**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **7.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data				Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)				
1										0.0 to 7.0 feet: GRAVELLY SILT with SAND (ML); light brown; 50% fines; 20% sand; 30% gravel; occasional metal pieces; moist.
2										
3										
4										
5										
6										
7										

Total depth: 7.0 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Samples collected approximately 0.5 foot above and below interval noted.
 - 3) G = Grab sample.

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Geologic Borehole Log/Well Construction

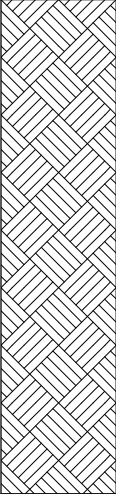
Project Number
0229.04.03

Well Number
TP-10

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **09/07/11 to 09/07/11**
Driller/Equipment **NRCES/Excavator**
Geologist/Engineer **Christina Johnson**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **7.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data				Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)				
1										0.0 to 0.3 feet: ASPHALT.
2										0.3 to 7.0 feet: SILTY SAND (SM); brown; 30% fines; 70% sand; west side of pit contains cobble-sized concrete clasts and occasional fines; strong petroleum-like odor; moist.
3										
4										
5										
6										
7										

Total depth: 7.0 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Samples collected approximately 0.5 foot above and below interval noted.
 - 3) G = Grab sample.

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Geologic Borehole Log/Well Construction

Project Number
0229.04.03

Well Number
TP-11

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **09/07/11 to 09/07/11**
Driller/Equipment **NRCES/Excavator**
Geologist/Engineer **Christina Johnson**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **7.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data				Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)				
1										0.0 to 7.0 feet: SILTY SAND with GRAVEL (SM); light brown; 30% fines; 50% sand; 20% gravel; occasional boulders and cobbles; moist.
2										
3										
4										
5										
6										
7										

Total depth: 7.0 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Samples collected approximately 0.5 foot above and below interval noted.
 - 3) G = Grab sample.

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Geologic Borehole Log/Well Construction

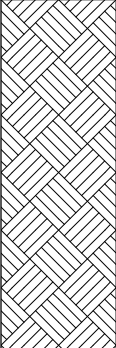
Project Number
0229.04.03

Well Number
TP-12

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **10/27/11 to 10/27/11**
Driller/Equipment **Stratus/Excavator**
Geologist/Engineer **Meaghan Gallagher**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **5.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data				Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)				
1				G		TP-12-S-1.0				0.0 to 0.5 feet: ASPHALT.
2										0.5 to 3.0 feet: SILTY SAND (SM); gray; 35% fines, non-plastic; 65% sand, fine to medium; damp.
3				G		TP-12-S-3.0				3.0 to 5.0 feet: SAND with SILT (SM) grayish brown; 15% fines, non-plastic; 85% sand, fine to medium; damp.
4				G		TP-12-S-5.0				
5										

Total depth: 5.0 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Samples collected approximately 0.5 foot above and below interval noted.
 - 3) G = Grab sample.

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Geologic Borehole Log/Well Construction

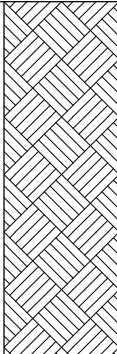
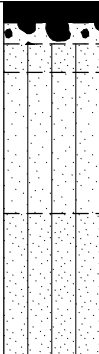
Project Number
0229.04.03

Well Number
TP-13

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **10/27/11 to 10/27/11**
Driller/Equipment **Stratus/Excavator**
Geologist/Engineer **Meaghan Gallagher**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **5.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data			Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)			
1				G		TP-13-S-1.0			0.0 to 0.3 feet: ASPHALT.
2									0.3 to 0.6 feet: SANDY GRAVEL (GW); 5% fines; 30% sand, fine to coarse; 65% gravel, fine to coarse, round to angular; strong petroleum-like odor; damp.
3				G		TP-13-S-3.0			0.6 to 1.0 feet: SILTY SAND (SM); gray; 40% fines, non-plastic; 60% sand, fine to medium; strong petroleum-like odor; damp.
4									1.0 to 3.0 feet: SANDY SILT (ML); dark gray; 65% fines, non-plastic; 35% sand, fine to medium; lots of woody debris; strong petroleum-like odor; damp.
5				G		TP-13-S-5.0			3.0 to 5.0 feet: SILTY SAND (SM); light brown; 15% fines, non-plastic; 85% sand, fine, trace medium.
									@ 5.0 feet: large cobbles.

@ 5.0 feet: large cobbles.
Total depth: 5.0 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Samples collected approximately 0.5 foot above and below interval noted.
 - 3) G = Grab sample.

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Geologic Borehole Log/Well Construction

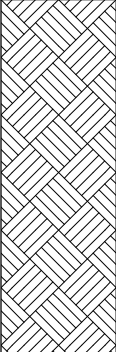
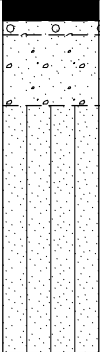
Project Number
0229.04.03

Well Number
TP-14

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **10/27/11 to 10/27/11**
Driller/Equipment **Stratus/Excavator**
Geologist/Engineer **Meaghan Gallagher**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **5.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data			Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)			
1				G		TP-14-S-1.0			0.0 to 0.3 feet: ASPHALT.
2									0.3 to 0.5 feet: SANDY GRAVEL (GW); 30% sand, medium to coarse; 70% gravel, fine to coarse, round to angular; damp.
3				G		TP-14-S-3.0			0.5 to 1.5 feet: SAND with GRAVEL (SW); 85% sand, medium to coarse; 15% gravel, fine to coarse, angular to subangular; woody debris; damp.
4				G		TP-14-S-5.0			1.5 to 5.0 feet: SILTY SAND (SM); medium brown; 20% fines, non-plastic; 80% sand, fine, trace medium; trace gravel; damp.
5									@4.0 feet: Grayish brown.

Total depth: 5.0 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Samples collected approximately 0.5 foot above and below interval noted.
 - 3) G = Grab sample.

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Geologic Borehole Log/Well Construction

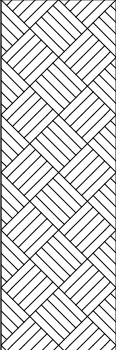
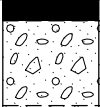
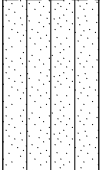
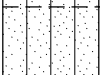
Project Number
0229.04.03

Well Number
TP-15

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **10/27/11 to 10/27/11**
Driller/Equipment **Stratus/Excavator**
Geologist/Engineer **Meaghan Gallagher**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **5.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data			Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)			
1				G		TP-15-S-1.0			0.0 to 0.3 feet: ASPHALT.
2									0.3 to 1.5 feet: SANDY GRAVEL (GW); grayish brown; 40% sand, medium to coarse; 60% gravel, round to angular, fine to coarse; trace cobble up to 5 inches in diameter; woody debris.
3				G		TP-15-S-3.0			1.5 to 4.0 feet: SILTY SAND (SM); medium brown; 20% fines, non-plastic; 80% sand, fine, trace medium; trace gravel; damp.
4									
5				G		TP-15-S-5.0			4.0 to 5.0 feet: SILTY SAND (SM); gray and brown; 45% fines, non-plastic to low plasticity; 55% sand, fine; trace mica, muscovite; damp.

Total depth: 5.0 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Samples collected approximately 0.5 foot above and below interval noted.
 - 3) G = Grab sample.

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Geologic Borehole Log/Well Construction

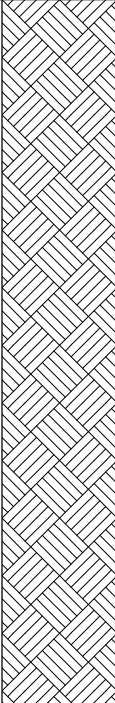
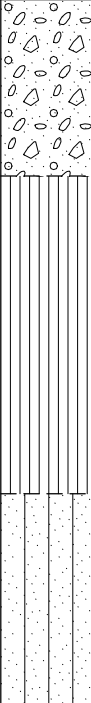
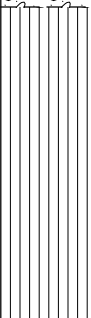
Project Number
0229.04.03

Well Number
TP-16

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **10/27/11 to 10/27/11**
Driller/Equipment **Stratus/Excavator**
Geologist/Engineer **Meaghan Gallagher**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **10.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data			Blows/6"	Lithologic Column	Soil Description	
				Collection Method	Number	Name (Type)				
1				G		TP-16-S-1.5		0.0 to 2.5 feet: SANDY GRAVEL (GW); medium brown; 40% sand, medium to coarse; 60% gravel, medium to coarse, round to subround; grass and rootlets present to 0.5; damp.		
2										
3				G		TP-16-S-4.0			2.5 to 7.0 feet: SANDY SILT with GRAVEL (ML); dark brown to dark gray; 65% fines, non-plastic to low plasticity; 20% sand, fine; 15% gravel, fine to coarse, round to angular; some cobble up to 12 inches in diameter; damp.	
4										
5										
6										
7										
8				G		TP-16-S-10.0			7.0 to 10.0 feet: SANDY SILT (ML); light brown; 80% fines, non-plastic to low plasticity; 20% sand, fine; moist.	
9										
10										

Total depth: 10.0 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Samples collected approximately 0.5 foot above and below interval noted.
 - 3) G = Grab sample.

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Geologic Borehole Log/Well Construction

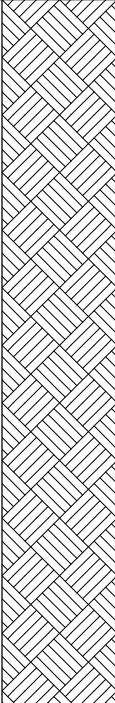
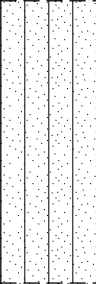
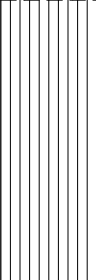
Project Number
0229.04.03

Well Number
TP-17

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **10/27/11 to 10/27/11**
Driller/Equipment **Stratus/Excavator**
Geologist/Engineer **Meaghan Gallagher**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **10.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data			Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)			
1				G	TP-17-1.5		0.0 to 0.2 feet: SANDY GRAVEL (GW); light brown; 40% sand, medium to coarse; 60% gravel, medium to coarse, round to subround; grass and rootlets present to 0.5; damp.		
2								2.0 to 6.0 feet: SILTY SAND with GRAVEL (SW); dark gray; 20% fines, non-plastic; 65% sand, medium to coarse; 15% gravel, fine to coarse, round to angular; trace cobble; damp.	
3									
4									
5									
6									
7				G	TP-17-S-4.0		6.0 to 10.0 feet: SANDY SILT (ML); light brown; 80% fines, non-plastic to low plasticity; 20% sand, fine; moist.		
8									
9									
10									

Total depth: 10.0 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Samples collected approximately 0.5 foot above and below interval noted.
 - 3) G = Grab sample.

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Geologic Borehole Log/Well Construction

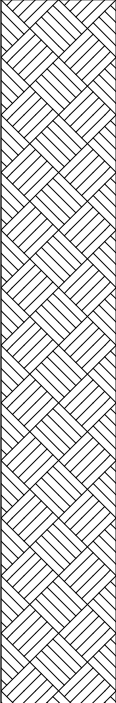
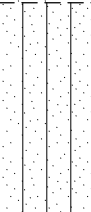
Project Number
0229.04.03

Well Number
TP-18

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **10/27/11 to 10/27/11**
Driller/Equipment **Stratus/Excavator**
Geologist/Engineer **Meaghan Gallagher**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **10.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data			Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)			
1				G		TP-18-S-1.5			0.0 to 2.0 feet: SANDY GRAVEL (GW); light brown; 40% sand, medium to coarse; 60% gravel, medium to coarse, round to subround; grass and rootlets present to 0.5; damp.
2									2.0 to 7.0 feet: SILTY SAND with GRAVEL (SW); dark gray; 20% fines, non-plastic; 65% sand, medium to coarse; 15% gravel, fine to coarse, round to angular; trace cobble; damp.
3									
4									
5									
6									
7									
8									7.0 to 10.0 feet: SANDY SILT (ML); light brown; 80% fines, non-plastic to low plasticity; 20% sand, fine; moist.
9									
10				G		TP-18-S-10.0			

Total depth: 10.0 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Samples collected approximately 0.5 foot above and below interval noted.
 - 3) G = Grab sample.

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Geologic Borehole Log/Well Construction

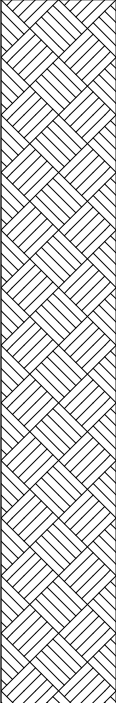
Project Number
0229.04.03

Well Number
TP-19

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **10/28/11 to 10/28/11**
Driller/Equipment **Stratus/Excavator**
Geologist/Engineer **Meaghan Gallagher**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **10.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data			Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)			
1									0.0 to 4.0 feet: SANDY GRAVEL (GW); medium brown; 5% fines; 20% sand, medium to coarse; 75% gravel, fine to coarse, round to angular; grass and rootlets to 0.5 feet; damp.
2				G		TP-19-S-1.5			
3									
4				G		TP-19-S-3.5			
5									
6									
7									
8									
9									
10				G		TP-19-S-10.0			

Total depth: 10.0 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Samples collected approximately 0.5 foot above and below interval noted.
 - 3) G = Grab sample.

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Geologic Borehole Log/Well Construction

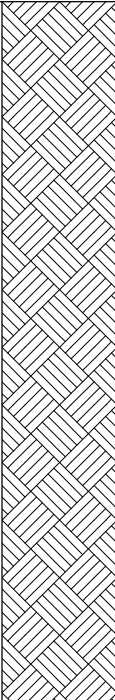
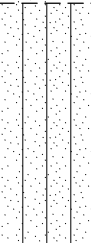
Project Number
0229.04.03

Well Number
TP-20

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **10/28/11 to 10/28/11**
Driller/Equipment **Stratus/Excavator**
Geologist/Engineer **Meaghan Gallagher**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **10.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data			Blows/6"	Lithologic Column	Soil Description			
				Collection Method	Number	Name (Type)						
1				G		TP-20-S-1.5		0.0 to 1.5 feet: SANDY GRAVEL (GW); grayish brown; 40% sand, medium to coarse; 60% gravel, fine to coarse, round to angular; damp.				
2								1.5 to 6.5 feet: SILTY SAND with GRAVEL (SW); dark gray; 20% fines, non-plastic; 65% sand, medium to coarse; 15% gravel, fine to coarse, round to angular; trace cobble; damp.				
3				G		TP-20-S-4.0						
4												
5												
6												
7									6.5 to 10.0 feet: SILTY SAND (SM); light brown to orangish brown; 25% fines, non-plastic; 75% sand, fine, trace medium; trace mica, muscovite; damp.			
8												
9				G		TP-20-S-10.0						
10												

Total depth: 10.0 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Samples collected approximately 0.5 foot above and below interval noted.
 - 3) G = Grab sample.

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Geologic Borehole Log/Well Construction

Project Number
0229.04.03

Well Number
TP-21

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **10/28/11 to 10/28/11**
Driller/Equipment **Stratus/Excavator**
Geologist/Engineer **Meaghan Gallagher**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **10.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data			Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)			
1									0.0 to 7.0 feet: SANDY GRAVEL (GW); medium brown; 40% sand, medium to coarse; 60% gravel, fine to coarse, round to angular; damp.
2				G		TP-21-S-1.5			
3									
4				G		TP-21-S-4.0			
5									@4.0 feet: Includes cobbles, subround to subangular
6									
7									
8									7.0 to 10.0 feet: SILTY SAND (SM); light orangish brown to orangish brown; 25% fines, non-plastic; 75% sand, fine, trace medium; trace mica, muscovite; damp.
9									
10				G		TP-21-S-10.0			

Total depth: 10.0 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Samples collected approximately 0.5 foot above and below interval noted.
 - 3) G = Grab sample.

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Geologic Borehole Log/Well Construction

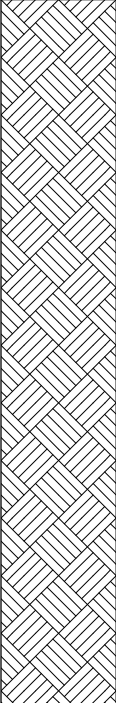
Project Number
0229.04.03

Well Number
TP-22

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **10/28/11 to 10/28/11**
Driller/Equipment **Stratus/Excavator**
Geologist/Engineer **Meaghan Gallagher**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **10.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data				Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)				
1										0.0 to 7.0 feet: GRAVELLY SAND (SW); brown; 60% sand, medium to coarse; 40% gravel, fine to medium, round to angular; damp.
2				G		TP-22-S-1.5				@1.6 feet: 0.2 foot layer of dark gray clayey gravel, very compact; 80% fines, high plasticity; 20% gravel, coarse, round to angular.
3				G		TP-22-S-3.0				@2.0 feet: Grayish brown.
4										
5										
6										
7										
8										7.0 to 10.0 feet: SANDY SILT with GRAVEL (ML); brownish gray; 75% fines, non-plastic; 15% sand, fine; 10% gravel, fine to coarse, angular to subangular; moist.
9				G		TP-22-S-10.0				
10										

Total depth: 10.0 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Samples collected approximately 0.5 foot above and below interval noted.
 - 3) G = Grab sample.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

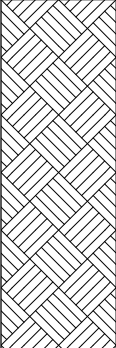
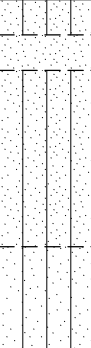
Project Number
0229.04.03

Well Number
TP-23

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **10/28/11 to 10/28/11**
Driller/Equipment **Stratus/Excavator**
Geologist/Engineer **Meaghan Gallagher**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **5.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data				Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)				
1				G		TP-23-S-3.0				0.0 to 0.5 feet: SILTY SAND (SM); dark brown; 20% fines, non-plastic; 80% sand, fine to medium; plants and rootlets throughout; damp.
2										0.5 to 1.0 feet: SAND (SP); orangish brown; 100% sand, fine to medium; very hard and compact; dry to damp.
3										1.0 to 3.5 feet: SILTY SAND (SM); gray; 15% fines, non-plastic; 85% sand, medium; woody debris throughout; faint odor; damp.
4										3.5 to 5.0 feet: SANDY SILT (ML); gray; 70% fines, non-plastic; 30% sand, fine to medium; trace mica, muscovite; trace woody debris; damp.
5										

Total depth: 5.0 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Samples collected approximately 0.5 foot above and below interval noted.
 - 3) G = Grab sample.

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Geologic Borehole Log/Well Construction

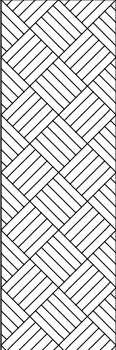
Project Number
0229.04.03

Well Number
TP-24

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **10/28/11 to 10/28/11**
Driller/Equipment **Stratus/Excavator**
Geologist/Engineer **Meaghan Gallagher**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **5.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data			Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)			
1				G		TP-24-S-1.0			0.0 to 0.5 feet: SILTY SAND (SM); dark brown; 20% fines, non-plastic; 80% sand, fine to medium; plants and rootlets throughout; damp.
2									0.5 to 4.0 feet: SANDY GRAVEL (GW); medium brown; trace fines; 40% sand, medium to coarse; 60% gravel, medium to coarse, angular to subround; some cobble up to 12 inches in diameter; damp.
3									@2.0 feet: Asphalt slab.
4									
5									4.0 to 5.0 feet: SANDY SILT with GRAVEL (ML); 60% fines, non-plastic; 30% sand, fine; 10% gravel, round; damp.

Total depth: 5.0 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Samples collected approximately 0.5 foot above and below interval noted.
 - 3) G = Grab sample.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

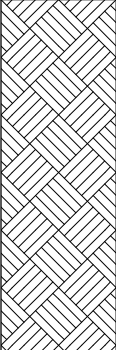
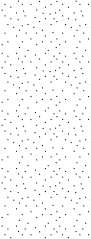
Project Number
0229.04.03

Well Number
TP-25

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **10/28/11 to 10/28/11**
Driller/Equipment **Stratus/Excavator**
Geologist/Engineer **Meaghan Gallagher**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **5.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data			Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)			
1				G		TP-25-S-1.0			0.0 to 0.5 feet: SILTY SAND (SM); dark brown; 20% fines, non-plastic; 80% sand, fine to medium; plants and rootlets throughout; damp.
2									0.5 to 1.5 feet: SANDY GRAVEL (GW); 30% sand, medium to coarse; 70% gravel, fine to medium, round to subangular; extremely strong petroleum-like odor; damp.
3				G		TP-25-S-3.0			1.5 to 5.0 feet: SAND (SP); gray; 100% sand, fine; trace mica, muscovite; odor continues; damp.
4									
5				G		TP-25-S-5.0			@4.0 feet: 10% fines, low plasticity; moist.

Total depth: 5.0 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Samples collected approximately 0.5 foot above and below interval noted.
 - 3) G = Grab sample.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

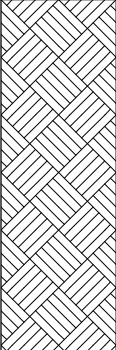
Project Number
0229.04.03

Well Number
TP-26

Sheet
1 of 1

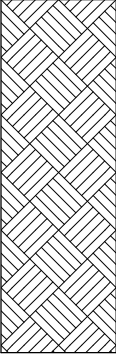
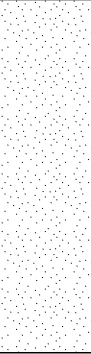
Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **10/28/11 to 10/28/11**
Driller/Equipment **Stratus/Excavator**
Geologist/Engineer **Meaghan Gallagher**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **5.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data				Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)				
1				G		TP-26-S-1.0				0.0 to 2.0 feet: SILTY SAND (SM); orange and gray; 25% fines, non-plastic; 75% sand, fine; trace mica, muscovite; odor; moist.
2										
3				G		TP-26-S-3.0				2.0 to 5.0 feet: SAND (SP); gray; 100% sand, fine; slight odor; moist.
4				G		TP-26-S-5.0				
5										

Total depth: 5.0 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Samples collected approximately 0.5 foot above and below interval noted.
 - 3) G = Grab sample.

Maul Foster & Alongi, Inc.		Geologic Borehole Log/Well Construction									
		Project Number 0229.04.03				Well Number TP-27			Sheet 1 of 1		
Project Name		Port of Camas Washougal					TOC Elevation (feet)				
Project Location		Washougal, WA					Surface Elevation (feet)				
Start/End Date		10/28/11 to 10/28/11					Northing				
Driller/Equipment		Stratus/Excavator					Easting				
Geologist/Engineer		Meaghan Gallagher					Hole Depth				
Sample Method		Grab					Outer Hole Diam				
							5.0-feet				
							-inch				
Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data				Lithologic Column	Soil Description		
				Collection Method	Number	Name (Type)	Blows/6"				
1				G		TP-27-S-1.0		0.0 to 5.0 feet: SAND (SP); gray; 100% sand, fine; slight odor; moist.			
2											
3					G				TP-27-S-3.0		
4											
5											
				G		TP-27-S-5.0		@3.0 feet: 100% sand, medium; wet.			
Total depth: 5.0 feet bgs.											
NOTES: 1) Test pit backfilled with overburden and wheel-compacted. 2) Samples collected approximately 0.5 foot above and below interval noted. 3) G = Grab sample.											

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

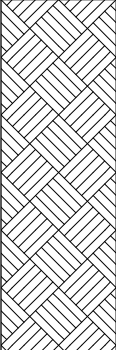
Project Number
0229.04.03

Well Number
TP-28

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **10/28/11 to 10/28/11**
Driller/Equipment **Stratus/Excavator**
Geologist/Engineer **Meaghan Gallagher**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **5.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data				Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)				
1				G		TP-28-S-1.0				0.0 to 0.5 feet: SANDY SILT with GRAVEL (ML); brown; 70% fines, non-plastic; 20% sand, fine to medium; 10% gravel, fine to coarse; subround to subangular; moist.
2										0.5 to 5.0 feet: SAND (SP); gray; 100% sand, fine; slight odor; moist.
3				G		TP-28-S-3.0				
4				G		TP-28-S-5.0				
5										

Total depth: 5.0 feet bgs bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Samples collected approximately 0.5 foot above and below interval noted.
 - 3) G = Grab sample.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

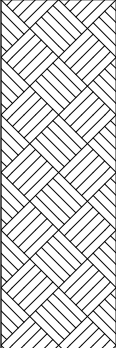
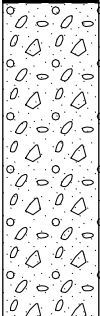
Project Number
0229.04.03

Well Number
TP-29

Sheet
1 of 1

Project Name **Port of Camas Washougal**
Project Location **Washougal, WA**
Start/End Date **10/28/11 to 10/28/11**
Driller/Equipment **Stratus/Excavator**
Geologist/Engineer **Meaghan Gallagher**
Sample Method **Grab**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **5.0-feet**
Outer Hole Diam **-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data				Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)				
1				G		TP-29-S-1.0				0.0 to 0.5 feet: ASPHALT.
2										0.5 to 5.0 feet: SANDY GRAVEL (GW); 30% sand, coarse; 70% gravel, fine to coarse, angular to subangular.
3				G		TP-29-S-3.0				
4				G		TP-29-S-5.0				
5										

Total depth: 5.0 feet bgs.

- NOTES:**
- 1) Test pit backfilled with overburden and wheel-compacted.
 - 2) Samples collected approximately 0.5 foot above and below interval noted.
 - 3) G = Grab sample.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number
0229.04.03

Well Number
MW-07

Sheet
1 of 3

Project Name **Port of Camas-Washougal**
Project Location **Washougal, Washington**
Start/End Date **10/27/11 to 10/28/11**
Driller/Equipment **Major Drilling/Hollow Stem Auger**
Geologist/Engineer **Meaghan Gallagher**
Sample Method **Split Spoon**

TOC Elevation (feet)
Surface Elevation (feet)
Northing
Easting
Hole Depth **41.5-feet**
Outer Hole Diam **8.25-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data			Blows/6"	Lithologic Column	Soil Description
					Number	Name (Type)				
1										
2										
3										
4										
5										
6			30%	SS		PID = 0.7 ppm		1 1 1 2		5.0 to 6.5 feet: SILTY SAND (SM); brownish gray; 30% fines, non-plastic; 70% sand, fine to medium; trace woody debris; moist
7										
8										
9										
10			66%	SS		PID = 1.0 ppm		2 2 3 5		10.0 to 11.5 feet: SAND (SP); gray; 100% sand, fine; moist. 10.5 feet: drillers note slight gravel, increasing to depth of boring.
11										
12										
13										
14										
15			80%	SS		PID = 1.5 ppm		3 4 4 8		15.0 to 16.5 feet: SILTY SAND (SM); dark brown; 35% fines, non-plastic; 65% sand, fine; trace woody debris; moist.
16										
17										
18										
19										
20										

NOTES: 1) Water sample collected with 0.75-inch I.D. polyethylene tubing.

▽ 30.0 (Boring depth 30 feet bgs)

▼ Water level 24.0 (Boring depth 40 feet bgs)

Maul Foster & Alongi, Inc.		Geologic Borehole Log/Well Construction									
		Project Number 0229.04.03			Well Number MW-07			Sheet 3 of 3			
Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data				Blows/6"	Lithologic Column	Soil Description	
				Collection Method	Number	Name (Type)					

Sheet
3 of 3

Soil Description

35.0 to 35.3 feet bgs: Well cap.

Water level 24.0 (Boring depth 40 feet bgs)

APPENDIX B

GROUNDWATER FIELD SAMPLING DATA SHEETS



Maul Foster & Alongi, Inc.

400 E. Mill Plain Blvd, Suite 400, Vancouver, WA 98660 (360) 694-2691 Fax. (360) 906-1958

Water Field Sampling Data Sheet

Client Name	Port of Camas Washougal	Sample Location	MW-2				
Project #	0229.04.03	Sampler	MRM & MKG				
Project Name	Former Hambleton Lumber	Sampling Date	9/6/2011				
Sampling Event	Sept. 2011	Sample Name	MW-2				
Sub Area		Sample Depth	33				
FSDS QA:	MKG	Easting		Northing		TOC	

Hydrology/Level Measurements

Date	Time	DT-Bottom	DT-Product	DT-Water	(Product Thickness)	(Water Column)	(Gallons/ft x Water Column)
					DTP-DTW	DTB-DTW	Pore Volume
09/06/2011	10:08	40.15		31.16		8.99	

(0.75" = 0.023 gal/ft) (1" = 0.041 gal/ft) (1.5" = 0.092 gal/ft) (2" = 0.163 gal/ft) (3" = 0.367 gal/ft) (4" = 0.653 gal/ft) (6" = 1.469 gal/ft) (8" = 2.611 gal/ft)

Water Quality Data

Purge Method	Time	Purge Vol (gal)	Flowrate l/min	pH	Temp (C)	E Cond (uS/cm)	DO (mg/L)	EH	Turbidity
(5) Inertia Pump	10:44	0.5	0.2	4.86	21.46	210	3.61	187.3	101
	10:54	1.0	0.2	5.81	17.64	184	1.72	132.3	72
	11:04	1.5	0.2	7.30	16.48	174	1.25	-5	43
Final Field Parameters	11:15	2.0	0.2	7.45	18.83	185	0.95	4.3	11.9

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailer (4) Vacuum Pump (5) Dedicated Bailer (6) Inertia Pump (7) Other (specify)

Water Quality Observations:

Slight sulfur odor, clear & colorless

Sample Information

Sampling Method	Sample Type	Sampling Time	Container Code/Preservative	#	Filtered
(5) Inertia Pump	Groundwater	11:15:00 AM	VOA-Glass	3	No
			Amber Glass	5	No
			White Poly	1	No
			Yellow Poly	0	
			Green Poly	0	
			Red Total Poly	0	
			Red Dissolved Poly	0	
			Total Bottles	9	

General Sampling Comments

Low flow sample using waterra pump.
Existing tubing removed from well

Signature

Maul Foster & Alongi, Inc.

400 E. Mill Plain Blvd, Suite 400, Vancouver, WA 98660 (360) 694-2691 Fax. (360) 906-1958

Water Field Sampling Data Sheet

Client Name	Port of Camas Washougal	Sample Location	MW-3				
Project #	0229.04.03	Sampler	MRM & MKG				
Project Name	Former Hambleton Lumber	Sampling Date	9/6/2011				
Sampling Event	Sept. 2011	Sample Name	MW-3				
Sub Area		Sample Depth	40				
FSDS QA:	MKG	Easting		Northing		TOC	

Hydrology/Level Measurements

Date	Time	DT-Bottom	DT-Product	DT-Water	(Product Thickness)	(Water Column)	(Gallons/ft x Water Column)
					DTP-DTW	DTB-DTW	Pore Volume
09/06/2011	9:00	47.48		31.02		16.46	2.68

(0.75" = 0.023 gal/ft) (1" = 0.041 gal/ft) (1.5" = 0.092 gal/ft) (2" = 0.163 gal/ft) (3" = 0.367 gal/ft) (4" = 0.653 gal/ft) (6" = 1.469 gal/ft) (8" = 2.611 gal/ft)

Water Quality Data

Purge Method	Time	Purge Vol (gal)	Flowrate l/min	pH	Temp (C)	E Cond (uS/cm)	DO (mg/L)	EH	Turbidity
(5) Inertia Pump	12:18	0.5	0.2	4.8	15.96	119	6.75	212.3	604
Final Field Parameters	12:28	1.0	0.2	7.08	15.90	121	5.89	52	170
	12:59	2.5	0.2	8.26	16.31	123	5.23	10.6	112
	1:10	3.0	0.2	7.36	16.56	122	5.2	26.4	65
	1:40	4.5	0.2	7.60	17.02	121	5.25	0.6	25
	2:20	7.0	0.2	7.60	17.80	121	5.16	-6.5	9.24

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailor (4) Vacuum Pump (5) Dedicated Bailor (6) Inertia Pump (7) Other (specify)

Water Quality Observations:

--

Sample Information

Sampling Method	Sample Type	Sampling Time	Container Code/Preservative	#	Filtered
(5) Inertia Pump	Groundwater	2:20:00 PM	VOA-Glass	3	No
			Amber Glass	5	No
			White Poly	1	No
			Yellow Poly		
			Green Poly		
			Red Total Poly		
			Red Dissolved Poly		
			Total Bottles	9	

General Sampling Comments

Low flow sample using waterra pump.
Existing tubing removed from well.

Signature



Maul Foster & Alongi, Inc.

400 E. Mill Plain Blvd, Suite 400, Vancouver, WA 98660 (360) 694-2691 Fax. (360) 906-1958

Water Field Sampling Data Sheet

Client Name	Port of Camas Washougal	Sample Location	MW-4				
Project #	0229.04.03	Sampler	MRM & MKG				
Project Name	Former Hambleton Lumber	Sampling Date	9/6/2011				
Sampling Event	Sept. 2011	Sample Name	MW-4				
Sub Area		Sample Depth	40				
FSDS QA:	MKG	Easting		Northing		TOC	

Hydrology/Level Measurements

Date	Time	DT-Bottom	DT-Product	DT-Water	(Product Thickness)	(Water Column)	(Gallons/ft x Water Column)
					DTP-DTW	DTB-DTW	Pore Volume
09/06/2011	9:15	45.76		37.38		8.38	1.36

(0.75" = 0.023 gal/ft) (1" = 0.041 gal/ft) (1.5" = 0.092 gal/ft) (2" = 0.163 gal/ft) (3" = 0.367 gal/ft) (4" = 0.653 gal/ft) (6" = 1.469 gal/ft) (8" = 2.611 gal/ft)

Water Quality Data

Purge Method	Time	Purge Vol (gal)	Flowrate l/min	pH	Temp (C)	E Cond (uS/cm)	DO (mg/L)	EH	Turbidity
(5) Inertia Pump	15:20	0.25	0.5	6.37	20.83	395	3.85	77.0	590
Final Field Parameters	15:30	1.5	0.5	7.51	18.83	363	0.56	-9.9	402
	15:40	2.75	0.5	7.62	19.08	364	0.27	-27.1	590
	15:50	3.75	0.2	7.66	23.61	401	0.19	-31.6	580
	16:45	5.25	0.2	7.55	20.43	373	0.10	-5.4	190
	17:50	11.5	0.2	7.65	19.48	369	0.07	-23.3	35.6
	18:20	14	0.2	7.61	19.04	364	0.06	-26.2	32

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailer (4) Vacuum Pump (5) Dedicated Bailer (6) Inertia Pump (7) Other (specify)

Water Quality Observations:

--

Sample Information

Sampling Method	Sample Type	Sampling Time	Container Code/Preservative	#	Filtered
(5) Inertia Pump	Groundwater	6:20:00 PM	VOA-Glass	3	No
			Amber Glass	5	No
			White Poly	1	No
			Yellow Poly		
			Green Poly		
			Red Total Poly		
			Red Dissolved Poly		
			Total Bottles	9	

General Sampling Comments

Low flow sample using waterra pump.
Existing tubing removed from well.

Signature



Maul Foster & Alongi, Inc.

400 E. Mill Plain Blvd, Suite 400, Vancouver, WA 98660 (360) 694-2691 Fax. (360) 906-1958

Water Field Sampling Data Sheet

Client Name	Port of Camas Washougal	Sample Location	MW-5				
Project #	0229.04.03	Sampler	MRM & MKG				
Project Name	Former Hambleton Lumber	Sampling Date	9/7/2011				
Sampling Event	Sept. 2011	Sample Name	MW-5				
Sub Area		Sample Depth	36				
FSDS QA:	MKG	Easting		Northing		TOC	

Hydrology/Level Measurements

Date	Time	DT-Bottom	DT-Product	DT-Water	(Product Thickness)	(Water Column)	(Gallons/ft x Water Column)
					DTP-DTW	DTB-DTW	Pore Volume
09/06/2011	9:45	41.40		29.63			

(0.75" = 0.023 gal/ft) (1" = 0.041 gal/ft) (1.5" = 0.092 gal/ft) (2" = 0.163 gal/ft) (3" = 0.367 gal/ft) (4" = 0.653 gal/ft) (6" = 1.469 gal/ft) (8" = 2.611 gal/ft)

Water Quality Data

Purge Method	Time	Purge Vol (gal)	Flowrate l/min	pH	Temp (C)	E Cond (uS/cm)	DO (mg/L)	EH	Turbidity
(5) Inertia Pump	9:36	0.75	0.3	8.17	17.32	151	7.62	31.4	230
	9:46	1.25	0.3	7.75	16.20	144	5.17	41	88
	10:06	2.5	0.3	7.74	16.44	144	2.36	36.9	36.4
	10:16	3.0	0.3	7.76	16.75	145	1.33	29.3	31
	10:22	4.5	0.3	7.76	16.87	146	0.70	24.9	30
Final Field Parameters									
	10:30	5.5	0.3	7.76	16.97	146	0.65	22.5	27

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailer (4) Vacuum Pump (5) Dedicated Bailer (6) Inertia Pump (7) Other (specify)

Water Quality Observations:

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Sample Information

Sampling Method	Sample Type	Sampling Time	Container Code/Preservative	#	Filtered
(5) Inertia Pump	Groundwater	10:30:00 AM	VOA-Glass	3	No
			Amber Glass	5	No
			White Poly	1	No
			Yellow Poly		
			Green Poly		
			Red Total Poly		
			Red Dissolved Poly		
			Total Bottles	9	

General Sampling Comments

Low flow sample with water pump.
Existing tubing removed from well.

Signature



Maul Foster & Alongi, Inc.

400 E. Mill Plain Blvd, Suite 400, Vancouver, WA 98660 (360) 694-2691 Fax. (360) 906-1958

Water Field Sampling Data Sheet

Client Name	Port of Camas Washougal	Sample Location	MW-6				
Project #	0229.04.03	Sampler	MRM & MKG				
Project Name	Former Hambleton Lumber	Sampling Date	9/7/2011				
Sampling Event	Sept. 2011	Sample Name	MW-6				
Sub Area		Sample Depth	42				
FSDS QA:	MKG	Easting		Northing		TOC	

Hydrology/Level Measurements

Date	Time	DT-Bottom	DT-Product	DT-Water	(Product Thickness)	(Water Column)	(Gallons/ft x Water Column)
					DTP-DTW	DTB-DTW	Pore Volume
09/06/2011	9:30	48.58		33.39		15.19	2.47

(0.75" = 0.023 gal/ft) (1" = 0.041 gal/ft) (1.5" = 0.092 gal/ft) (2" = 0.163 gal/ft) (3" = 0.367 gal/ft) (4" = 0.653 gal/ft) (6" = 1.469 gal/ft) (8" = 2.611 gal/ft)

Water Quality Data

Purge Method	Time	Purge Vol (gal)	Flowrate l/min	pH	Temp (C)	E Cond (uS/cm)	DO (mg/L)	EH	Turbidity
(5) Inertia Pump	8:30	0.25	0.2	7.17	15.25	108	2.35	59	70
	8:45	1.25	0.2	7.23	15.37	107	1.52	41.7	10.2
	8:55	1.75	0.2	7.12	15.52	107	1.33	46.7	7.0
Final Field Parameters	9:00	2.0	0.2	7.28	15.47	107	1.29	51.2	5.9

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailer (4) Vacuum Pump (5) Dedicated Bailer (6) Inertia Pump (7) Other (specify)

Water Quality Observations:

clear & colorless

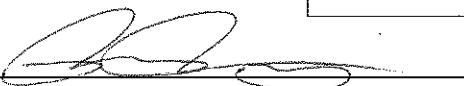
Sample Information

Sampling Method	Sample Type	Sampling Time	Container Code/Preservative	#	Filtered
(5) Inertia Pump	Groundwater	9:00:00 AM	VOA-Glass	3	No
			Amber Glass	5	No
			White Poly	1	No
			Yellow Poly		
			Green Poly		
			Red Total Poly		
			Red Dissolved Poly		
			Total Bottles	9	

General Sampling Comments

Low flow sample using waterra pump.
Existing tubing removed from well.

Signature



Maul Foster & Alongi, Inc.

400 E. Mill Plain Blvd, Suite 400, Vancouver, WA 98660 (360) 694-2691 Fax. (360) 906-1958

Water Field Sampling Data Sheet

Client Name	Port of Camas Washougal	Sample Location	MW-7				
Project #	0229.04.03	Sampler	MRM				
Project Name	Former Hambleton Lumber	Sampling Date	10/28/2011				
Sampling Event	Oct. 2011	Sample Name	MW-7				
Sub Area		Sample Depth	30				
FSDS QA:	MRM 11/11/11	Easting		Northing		TOC	

Hydrology/Level Measurements

Date	Time	DT-Bottom	DT-Product	DT-Water	(Product Thickness)	(Water Column)	(Gallons/ft x Water Column)
					DTP-DTW	DTB-DTW	Pore Volume
10/27/2011	9:00:00	36.14		20.61		15.53	2.53

(0.75" = 0.023 gal/ft) (1" = 0.041 gal/ft) (1.5" = 0.092 gal/ft) (2" = 0.163 gal/ft) (3" = 0.367 gal/ft) (4" = 0.653 gal/ft) (6" = 1.469 gal/ft) (8" = 2.611 gal/ft)

Water Quality Data

Purge Method	Time	Purge Vol (gal)	Flowrate l/min	pH	Temp (C)	E Cond (uS/cm)	DO (mg/L)	EH	Turbidity
(5) Inertia Pump									
Final Field Parameters	12:30	315	0.2	5.92	14.53	91	0.64	-173.7	82.51

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailer (4) Vacuum Pump (5) Dedicated Bailer (6) Inertia Pump (7) Other (specify)

Water Quality Observations:

Significant water volume removed during development, water was still turbid.

Sample Information

Sampling Method	Sample Type	Sampling Time	Container Code/Preservative	#	Filtered
(5) Inertia Pump	Groundwater	12:30:00 PM	VOA-Glass	5	No
			Amber Glass	4	No
			White Poly	0	No
			Yellow Poly	0	
			Green Poly	0	
			Red Total Poly	1	
			Red Dissolved Poly	1	Yes
			Total Bottles	11	

General Sampling Comments

Well developed just prior to sampling. Sample collected using low-flow technique.

Signature



APPENDIX C

HISTORICAL LOG POND ANALYTICAL DATA



Table 6. Summary of Analytical Data, Sediment

Location ID		SD01	SD02	Maximum Soil Concentration (remaining soil)	MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses	EPA Region VI SSLs Soil (Residential)	Background Concentrations (metals) ¹	COPC? ²
Sample ID		SD01-3-4'	SD02-2-3'					
Date Sampled		7/10/2008	7/10/2008					
Depth Sampled (feet)		3-4'	2-3'					
Sample By		ENW	ENW					
Location		Sediment from the northwestern portion of the log pond	Sediment from the southeastern portion of the log pond					
Constituent of Interest	Note	mg/Kg (ppm)		mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	Y / N
Polynuclear Aromatic Hydrocarbons								
Acenaphthene	nc, v	<0.3 (ND)	<0.3 (ND)	<0.3 (ND)	NE	3700	NE	N
Anthracene	nc, v	<0.3 (ND)	<0.3 (ND)	<0.3 (ND)	NE	22000	NE	N
Benzo[a]anthracene	c, nv	<0.3 (ND)	<0.3 (ND)	<0.3 (ND)	0.1 (**)	0.15	NE	(Y)
Benzo[a]pyrene	c, nv	<0.3 (ND)	<0.3 (ND)	<0.3 (ND)	0.1 (**)	0.015	NE	(Y)
Benzo[b]fluoranthene	c, nv	<0.3 (ND)	<0.3 (ND)	<0.3 (ND)	0.1 (**)	0.15	NE	(Y)
Benzo[k]fluoranthene	c, nv	<0.3 (ND)	<0.3 (ND)	<0.3 (ND)	0.1 (**)	1.5	NE	(Y)
Chrysene	c, nv	<0.3 (ND)	<0.3 (ND)	<0.3 (ND)	0.1 (**)	15	NE	(Y)
Dibenzo[a,h]anthracene	c, nv	<0.3 (ND)	<0.3 (ND)	<0.3 (ND)	0.1 (**)	0.015	NE	(Y)
Fluoranthene	nc, nv	<0.3 (ND)	<0.3 (ND)	<0.3 (ND)	NE	2300	NE	N
Fluorene	nc, v	<0.3 (ND)	<0.3 (ND)	<0.3 (ND)	NE	2600	NE	N
Indeno[1,2,3-cd]pyrene	c, nv	<0.3 (ND)	<0.3 (ND)	<0.3 (ND)	0.1 (**)	0.15	NE	(Y)
Naphthalene	nc, v	<0.3 (ND)	<0.3 (ND)	<0.3 (ND)	5 n	120	NE	N
1-Methylnaphthalene	nc, v	<3 (ND)	<3 (ND)	<3 (ND)		NE		N
2-Methylnaphthalene	nc, v	<0.3 (ND)	<0.3 (ND)	<0.3 (ND)		NE		N
Pyrene	nc, nv	<0.3 (ND)	<0.3 (ND)	<0.3 (ND)	0.1	2300	NE	(Y)
Volatile Organic Constituents (VOCs)								
Acetone	c, v	3.5	2.2	3.5	NE	14,000	NE	N
Benzene	c, v	<0.03 (ND)	<0.03 (ND)	<0.03 (ND)	0.03	0.66	NE	N
Bromodichloromethane	c, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	1.0	NE	N
Bromoform	c, nv	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	62	NE	N
Bromomethane	nc, v	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	NE	3.9	NE	N
2-Butanone (MEK)	nc, v	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	NE	32000	NE	N
Butylbenzene, n-	nc, v	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	NE	140	NE	N
Butylbenzene, sec-	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	110	NE	N
Carbon tetrachloride	c, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	0.24	NE	N
Chlorobenzene	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	270	NE	N
Chlorodibromomethane	c, nv	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	NE	NE	N
Chloroethane	c, v	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	NE	NE	NE	N
Chloroform	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	0.25	NE	N
Chloromethane	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	1.3	NE	N
Dichlorobenzene, 1,2-	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	280	NE	N
Dichlorobenzene, 1,3-	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	69	NE	N
Dichlorobenzene, 1,4-	c, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	3.2	NE	N
Dichloroethane, 1,1-	c, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	850	NE	N
Dichloroethene, 1,1-	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	280	NE	N
Dichloroethene, cis-1,2-	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	43	NE	N
Dichloroethene, trans-1,2-	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	120	NE	N
Dichloroethyl ether	c, v	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	NE	NE	NE	N
Dichloromethane (methylene chloride)	c, v	0.92	1.2	1.2	0.02	NE	NE	Y
EDB (1,2-dibromoethane)	c, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	0.005	0.028	NE	(Y)
EDC (1,2-dichloroethane)	c, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	0.35	NE	N
Ethylbenzene	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	6	230	NE	N
Isopropylbenzene, p-		0.40	1.1	1.1	NE	NE	NE	N
MTBE (methyl t-butyl ether)	c, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	0.1	32	NE	N
Naphthalene	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	5 n	120	NE	N
Propylbenzene, iso- (Cumene)	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	370	NE	N
Propylbenzene, n-	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	140	NE	N
Styrene	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	1700	NE	N
Tetrachloroethene (PCE)	c, v	<0.025 (ND)	<0.025 (ND)	<0.025 (ND)	0.05	0.55	NE	N
Toluene	nc, v	0.26	5.0	5.0	7	520	NE	N
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	nc, v	—	—	<0 (ND)	NE	NE	NE	N
Trichloroethane, 1,1,1-	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	2	1400	NE	N
Trichloroethane, 1,1,2-	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	0.84	NE	N
Trichloroethene	c, v	<0.03 (ND)	<0.03 (ND)	<0.03 (ND)	0.03	0.043	NE	N
Trichlorofluoromethane (Freon 11)	nc, v	<0.5 (ND)	<0.5 (ND)	<0.5 (ND)	NE	390	NE	N
Trimethylbenzene, 1,2,4-	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	52	NE	N
Trimethylbenzene, 1,3,5-	nc, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	21	NE	N
Vinyl chloride	c, v	<0.05 (ND)	<0.05 (ND)	<0.05 (ND)	NE	0.043	NE	(Y)
Xylenes	nc, v	<0.15 (ND)	<0.15 (ND)	<0.15 (ND)	9	210	NE	N
Polychlorinated Biphenyls (PCBs)								
Aroclor 1016	c, nv	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	1	3.9	NE	N
Aroclor 1221	c, nv	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	1	0.22	NE	N
Aroclor 1232	c, nv	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	1	0.22	NE	N
Aroclor 1242	c, nv	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	1	0.22	NE	N
Aroclor 1248	c, nv	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	1	0.22	NE	N
Aroclor 1254	c, nv	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	1	0.22	NE	N
Aroclor 1260	c, nv	<0.1 (ND)	<0.1 (ND)	<0.1 (ND)	1	0.22	NE	N
Non-Volatile Organic Constituents (SVOCs)								
Benzoic acid	nc, nv	18	18	18	NE	100,000	NE	N
Benzyl butyl phthalate	nc, nv	<0.3 (ND)	<0.3 (ND)	<0.3 (ND)	NE	240	NE	N
Bis(2-ethylhexyl)phthalate	c, nv	3.4	<3 (ND)	3.4	NE	35	NE	N
Dibenzofuran	nc, nv	<0.3 (ND)	<0.3 (ND)	<0.3 (ND)	NE	150	NE	N
Diethyl phthalate	nc, nv	<0.3 (ND)	<0.3 (ND)	<0.3 (ND)	NE	49,000	NE	N
Dimethyl phthalate	nc, nv	<0.3 (ND)	<0.3 (ND)	<0.3 (ND)	NE	100,000	NE	N

Table 6. Summary of Analytical Data, Sediment

Dinitrotoluene, 2,6-	nc, nv	<0.3 (ND)	<0.3 (ND)	<0.3 (ND)	NE	61	NE	N
Di-n-butyl phthalate	nc, nv	0.54	<0.3 (ND)	0.54	NE	NE	NE	N
Di-n-octyl phthalate	nc, nv	<0.3 (ND)	<0.3 (ND)	<0.3 (ND)	NE	NE	NE	N
Hexachloroethane	c, nv	<0.3 (ND)	<0.3 (ND)	<0.3 (ND)	NE	35	NE	N
4-Methylphenol	nc, nv	60	100	100	NE	310	NE	N
Pentachlorophenol	c, nv	<3 (ND)	<3 (ND)	<3 (ND)	NE	3	NE	N
Phenol	c, nv	13	11	13	NE	18,000	NE	N
Trichlorophenol, 2,4,6-	c, nv	<3 (ND)	<3 (ND)	<3 (ND)	NE	44	NE	N
Metals								
Arsenic	c, nv	<1 (ND)	<1 (ND)	<1 (ND)	20	0.39	7	(Y)
Antimony	nc, nv	14.1	<1 (ND)	14.1	NE	31	NE	N
Barium	nc, nv	51.1	33.7	51.1	NE	16,000	NE	N
Beryllium	nc, nv	<1 (ND)	<1 (ND)	<1 (ND)	NE	150	2	N
Cadmium	c, nv	<1 (ND)	<1 (ND)	<1 (ND)	2	39	1	N
Chromium (III)	nc, nv	12.7	6.23	12.7	2000	100,000	NE	N
Copper	nc, nv	316	12.1	316	NE	2900	36	(N)
Lead	NA, nv	76	4.92	76	250	400	17	(N)
Mercury	nc, nv	<0.2 (ND)	<0.2 (ND)	<0.2 (ND)	2	23	0.07	N
Nickel	nc, nv	9.98	2.70	9.98	NE	1600	38	N
Selenium	nc, nv	<1 (ND)	<1 (ND)	<1 (ND)	NE	390	NE	N
Silver	nc, nv	<1 (ND)	<1 (ND)	<1 (ND)	NE	390	NE	N
Thallium	nc, nv	<1 (ND)	<1 (ND)	<1 (ND)	NE	5.5	NE	N
Zinc	nc, nv	40.4	23.2	40.4	NE	23000	86	N
Total Petroleum Hydrocarbons								
GRO	nc, v	18	80	80	100	NE	NE	N
DRO	nc, nv	3400 x	3600 x	3600	2000	NE	NE	Y
RRO	nc, nv	7200 y	8800 y	8800	2000	NE	NE	Y

Notes:

nv = not detected at or above laboratory method reporting limit

NE = not established

— = not analyzed or not applicable

~ = not detected at or above the method reporting limit

chrom

mg/Kg = milligram per kilogram

c = carcinogenic

nc = noncarcinogenic

v = volatile

nv = nonvolatile

GRO = gasoline-range organics

DRO = diesel-range organics

RRO = residual-range organics

Bolded concentrations exceed MTCA Method A Cleanup Levels or EPA Region XI SSLs (indicated with a Y in the last column)

(Y) indicates analyte not detected, but detection limit is above screening concentration.

(N) indicates analyte does not exceed cleanup screening level; however, does exceed background concentration

¹ Background concentrations from ECOLOGY Publication #94-115² MTCA Method A used as primary screening. EPA Region XI SSLs used only if no MTCA Standard available

x = the pattern of peaks is not indicative of diesel

y = the pattern of peaks is not indicative of motor oil

** Cleanup level of carcinogenic PAHs based on cleanup standard for benzo[a]pyrene. Toxic equivalency factors must be used to take into account presence of other carcinogenic PAHs.

n = MTCA Method A Cleanup level for all naphthalenes (total of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene)

Table 7. Summary of Analytical Data, Sediment (Normalized to Total Organic Carbon)

Location ID		SD01	SD02	Maximum Soil Concentration (remaining soil)	Marine Sediment Quality Standards	Background Concentrations (metals) ¹	COPC? ²
Sample ID		SD01-3-4'	SD02-2-3'				
Date Sampled		7/10/2008	7/10/2008				
Depth Sampled (feet)		3-4'	2-3'				
Sample By		ENW	ENW				
Location		Sediment from the northwestern portion of the log pond	Sediment from the southeastern portion of the log pond				
Constituent of Interest	Note	mg/Kg (ppm)		mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	TRUE / FALSE
Polynuclear Aromatic Hydrocarbons (Normalized on a Total Organic Carbon Basis)							
Acenaphthene	nc, v	<1.75 (ND)	<1.18 (ND)	<1.75 (ND)	16	NE	FALSE
Anthracene	nc, v	<1.75 (ND)	<1.18 (ND)	<1.75 (ND)	220	NE	FALSE
Benzo[a]anthracene	c, nv	<1.75 (ND)	<1.18 (ND)	<1.75 (ND)	110	NE	FALSE
Benzo[a]pyrene	c, nv	<1.75 (ND)	<1.18 (ND)	<1.75 (ND)	99	NE	FALSE
Benzo[b]fluoranthene	c, nv	<1.75 (ND)	<1.18 (ND)	<1.75 (ND)	230	NE	FALSE
Benzo[k]fluoranthene	c, nv	<1.75 (ND)	<1.18 (ND)	<1.75 (ND)			
Benzo[g,h,i]perylene	c, nv	<1.75 (ND)	<1.18 (ND)	<1.75 (ND)	31	NE	FALSE
Chrysene	c, nv	<1.75 (ND)	<1.18 (ND)	<1.75 (ND)	110	NE	FALSE
Dibenz[a,h]anthracene	c, nv	<1.75 (ND)	<1.18 (ND)	<1.75 (ND)	12	NE	FALSE
Fluoranthene	nc, nv	<1.75 (ND)	<1.18 (ND)	<1.75 (ND)	160	NE	FALSE
Fluorene	nc, v	<1.75 (ND)	<1.18 (ND)	<1.75 (ND)	23	NE	FALSE
Indeno[1,2,3-cd]pyrene	c, nv	<1.75 (ND)	<1.18 (ND)	<1.75 (ND)	34	NE	FALSE
Naphthalene	nc, v	<1.75 (ND)	<1.18 (ND)	<1.75 (ND)	99	NE	FALSE
1-Methylnaphthalene	nc, v	<17.5 (ND)	<11.8 (ND)	<17.5 (ND)	NE	NE	FALSE
2-Methylnaphthalene	nc, v	<1.75 (ND)	<1.18 (ND)	<1.75 (ND)	38	NE	FALSE
Phenanthrene	nc, nv	<1.75 (ND)	<1.18 (ND)	<1.75 (ND)	100	NE	FALSE
Pyrene	nc, nv	<1.75 (ND)	<1.18 (ND)	<1.75 (ND)	1000	NE	FALSE
Volatile Organic Constituents (VOCs) (Normalized on a Total Organic Carbon Basis)							
Acetone	c, v	20.5	8.6	20.5	NE	NE	FALSE
Benzene	c, v	<0.18 (ND)	<0.12 (ND)	<0.2 (ND)	NE	NE	FALSE
Bromodichloromethane	c, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Bromoform	c, nv	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Bromomethane	nc, v	<2.9 (ND)	<2.0 (ND)	<2.9 (ND)	NE	NE	FALSE
2-Butanone (MEK)	nc, v	<2.9 (ND)	<2.0 (ND)	<2.9 (ND)	NE	NE	FALSE
Butylbenzene, n-	nc, v	<2.9 (ND)	<2.0 (ND)	<2.9 (ND)	NE	NE	FALSE
Butylbenzene, sec-	nc, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Carbon tetrachloride	c, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Chlorobenzene	nc, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Chlorodibromomethane	c, nv	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Chloroethane	c, v	<2.9 (ND)	<2.0 (ND)	<2.9 (ND)	NE	NE	FALSE
Chloroform	nc, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Chloromethane	nc, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Dichlorobenzene, 1,2-	nc, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	2.3	NE	FALSE
Dichlorobenzene, 1,3-	nc, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Dichlorobenzene, 1,4-	c, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	3.1	NE	FALSE
Dichloroethane, 1,1-	c, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Dichloroethane, 1,1-	nc, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Dichloroethane, cis-1,2-	nc, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Dichloroethane, trans-1,2-	nc, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Dichloroethylether	c, v	<2.9 (ND)	<2.0 (ND)	<2.9 (ND)	NE	NE	FALSE
Dichloromethane (methylene chloride)	c, v	5.38	4.7	5.4	NE	NE	FALSE
EDB (1,2-dibromoethane)	c, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
EDC (1,2-dichloroethane)	c, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Ethylbenzene	nc, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Isopropylbenzene, p-		2.34	4.3	4.3	NE	NE	FALSE
MTBE (methyl t-butyl ether)	c, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Naphthalene	nc, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Propylbenzene, iso- (Cumene)	nc, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Propylbenzene, n-	nc, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Styrene	nc, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Tetrachloroethene (PCE)	c, v	<0.15 (ND)	<0.10 (ND)	<0.1 (ND)	NE	NE	FALSE
Toluene	nc, v	1.52	19.6	19.6	NE	NE	FALSE
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	nc, v	—	—	—	—	—	—
Trichloroethane, 1,1,1-	nc, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Trichloroethane, 1,1,2-	nc, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Trichloroethene	c, v	<0.18 (ND)	<0.12 (ND)	<0.2 (ND)	NE	NE	FALSE
Trichlorofluoromethane (Freon 11)	nc, v	<2.9 (ND)	<2.0 (ND)	<2.9 (ND)	NE	NE	FALSE
Trimethylbenzene, 1,2,4-	nc, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Trimethylbenzene, 1,3,5-	nc, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Vinyl chloride	c, v	<0.29 (ND)	<0.20 (ND)	<0.3 (ND)	NE	NE	FALSE
Xylenes	nc, v	<0.88 (ND)	<0.59 (ND)	<0.9 (ND)	NE	NE	FALSE
Polychlorinated Biphenyls (PCBs) (Normalized on a Total Organic Carbon Basis)							
Aroclor 1016	c, nv	<0.58 (ND)	<0.39 (ND)	<0.58 (ND)	12	NE	N
Aroclor 1221	c, nv	<0.58 (ND)	<0.39 (ND)	<0.58 (ND)		NE	
Aroclor 1232	c, nv	<0.58 (ND)	<0.39 (ND)	<0.58 (ND)		NE	
Aroclor 1242	c, nv	<0.58 (ND)	<0.39 (ND)	<0.58 (ND)		NE	
Aroclor 1248	c, nv	<0.58 (ND)	<0.39 (ND)	<0.58 (ND)		NE	
Aroclor 1254	c, nv	<0.58 (ND)	<0.39 (ND)	<0.58 (ND)		NE	
Aroclor 1260	c, nv	<0.58 (ND)	<0.39 (ND)	<0.58 (ND)		NE	
Non-Volatile Organic Constituents (SVOCs) (Normalized on a Total Organic Carbon Basis)							
Acrylonitrile	c, v	—	—	—	—	—	—

Table 7. Summary of Analytical Data, Sediment (Normalized to Total Organic Carbon)

Benzidine	c, nv	—	—	—	—	—	—
Benzoic acid	nc, nv	105	71	105	0.65	NE	TRUE
Benzyl butyl phthalate	nc, nv	<1.8 (ND)	<1.2 (ND)	<1.8 (ND)	4.9	NE	FALSE
Bis(2-ethylhexyl)phthalate	c, nv	19.9	<11.7647059 (ND)	19.9	47	NE	FALSE
Cyanide (hydrogen cyanide) *	nc, nv	—	—	—	—	—	—
Dibenzofuran	nc, nv	<1.8 (ND)	<1.2 (ND)	<1.8 (ND)	15	NE	FALSE
Dichlorobenzidine, 3,3'-	c, nv	—	—	<0 (ND)	NE	NE	FALSE
Diethyl phthalate	nc, nv	<1.8 (ND)	<1.2 (ND)	<1.8 (ND)	61	NE	FALSE
Dimethyl phthalate	nc, nv	<1.8 (ND)	<1.2 (ND)	<1.8 (ND)	53	NE	FALSE
Dinitrotoluene, 2,6-	nc, nv	<1.8 (ND)	<1.2 (ND)	<1.8 (ND)	NE	NE	FALSE
Di-n-propylnitrosamine	c, nv	—	—	<0 (ND)	NE	NE	FALSE
Di-n-butyl phthalate	nc, nv	3.16	<1.2 (ND)	3.16	220	NE	FALSE
Di-n-octyl phthalate	nc, nv	<1.8 (ND)	<1.2 (ND)	<1.8 (ND)	58	NE	FALSE
Dioxane, 1,4-	c, nv	—	—	—	—	—	—
Diphenylnitrosamine	c, nv	—	—	—	—	—	—
Formaldehyde	nc, nv	—	—	—	—	—	—
Hexachloroethane	c, nv	<1.8 (ND)	<1.2 (ND)	<1.8 (ND)	NE	NE	FALSE
4-Methylphenol	nc, nv	351	392	392	0.67	NE	TRUE
Pentachlorophenol	c, nv	<17.5 (ND)	<11.8 (ND)	<17.5 (ND)	0.36	NE	(TRUE)
Phenol	c, nv	76	43	76	0.42	NE	TRUE
Polychlorinated biphenyls (PCBs)	c, nv	—	—	—	—	—	—
TCDD, 2,3,7,8- (Dioxin)	c, nv	—	—	—	—	—	—
Trichlorophenol, 2,4,6-	c, nv	<17.5 (ND)	<11.8 (ND)	<17.5 (ND)	NE	NE	FALSE
Pesticides (Normalized on a Total Organic Carbon Basis)							
Aldrin	c, nv	<2.3 (ND)	<1.6 (ND)	<2.3 (ND)	NE	NE	FALSE
Chlordane	c, nv	<11.7 (ND)	<7.8 (ND)	<11.7 (ND)	NE	NE	FALSE
DDD (4,4'-Dichlorodiphenyltrichloroethene)	c, nv	<2.3 (ND)	<1.6 (ND)	<2.3 (ND)	NE	NE	FALSE
DDE (4,4'-Dichlorodiphenyldichloroethene)	c, nv	<2.3 (ND)	<1.6 (ND)	<2.3 (ND)	NE	NE	FALSE
DDT (Dichloro diphenyl trichloroethane)	c, nv	<2.3 (ND)	<1.6 (ND)	<2.3 (ND)	NE	NE	FALSE
Dichlorophenoxyacetic acid, 2,4- (2,4-D)	nc, nv	—	—	—	NE	NE	FALSE
Dieldrin	c, nv	<2.3 (ND)	<1.6 (ND)	<2.3 (ND)	NE	NE	FALSE
Endosulfan, (alpha-beta)	nc, nv	<2.3 (ND)	<1.6 (ND)	<2.3 (ND)	NE	NE	FALSE
Endrin	nc, nv	<2.3 (ND)	<1.6 (ND)	<2.3 (ND)	NE	NE	FALSE
Heptachlor	c, nv	<2.3 (ND)	<1.6 (ND)	<2.3 (ND)	NE	NE	FALSE
Heptachlor Epoxide	c, nv	<2.3 (ND)	<1.6 (ND)	<2.3 (ND)	NE	NE	FALSE
Hexachlorobenzene	c, nv	<2.3 (ND)	<1.6 (ND)	<2.3 (ND)	0.38	NE	(TRUE)
Hexachlorocyclohexane, alpha- (alpha-HCH)	c, nv	<2.3 (ND)	<1.6 (ND)	<2.3 (ND)	NE	NE	FALSE
Hexachlorocyclohexane, gamma- (Lindane)	c, nv	<2.3 (ND)	<1.6 (ND)	<2.3 (ND)	NE	NE	FALSE
MCPA ((4-chloro-2-methylphenoxy)acetic acid)	nc, nv	—	—	—	—	—	—
Toxaphene	c, nv	—	—	—	—	—	—
Metals							
Arsenic	c, nv	<1 (ND)	<1 (ND)	<1 (ND)	57	7	FALSE
Antimony	nc, nv	14.1	<1 (ND)	14.1	NE	NE	FALSE
Barium	nc, nv	51.1	33.7	51.1	NE	NE	FALSE
Beryllium	nc, nv	<1 (ND)	<1 (ND)	<1 (ND)	NE	2	FALSE
Cadmium	c, nv	<1 (ND)	<1 (ND)	<1 (ND)	5.1	1	FALSE
Chromium (III)	nc, nv	12.7	6.23	12.7	260	NE	FALSE
Copper	nc, nv	316	12.1	316	390	36	-TRUE-
Lead	NA, nv	76	4.92	76	450	17	-TRUE-
Mercury	nc, nv	<0.2 (ND)	<0.2 (ND)	<0.2 (ND)	0.41	0.07	(TRUE)
Nickel	nc, nv	9.98	2.70	9.98	NE	38	FALSE
Selenium	nc, nv	<1 (ND)	<1 (ND)	<1 (ND)	NE	NE	FALSE
Silver	nc, nv	<1 (ND)	<1 (ND)	<1 (ND)	6.1	NE	FALSE
Thallium	nc, nv	<1 (ND)	<1 (ND)	<1 (ND)	NE	NE	FALSE
Zinc	nc, nv	40.4	23.2	40.4	410	86	FALSE
Total Petroleum Hydrocarbons							
GRO	nc, v	18	80	80	NE	NE	FALSE
DRO	nc, nv	3400 x	3600 x	3600	NE	NE	FALSE
RRO	nc, nv	7200 y	8800 y	8800	NE	NE	FALSE
Parameters							
Total Organic Carbon		17.1%	25.5%	25.5%	—	—	—
Ammonia (per Kg-N)		1.31	14.2	14	—	—	—

Notes:

NE = not established

— = not analyzed or not applicable

<# ND = not detected at or above the method reporting limit shown.

mg/Kg = milligram per kilogram

c = carcinogenic

nc = noncarcinogenic

v = volatile

nv = nonvolatile

GRO = gasoline-range organics

DRO = diesel-range organics

RRO = residual-range organics

Bolded concentrations exceed Ecology's Sediment Quality Standards (indicated with a TRUE in the last column)

(TRUE) indicates analyte not detected, but detection limit is above screening concentration.

-TRUE- indicates analyte does not exceed the Marine Sediment Screening Level; however, was detected above its soil background concentration.

¹ Background concentrations from ECOLOGY Publication #94-115² Marine Sediment Quality Standards used as primary screening.

x = the pattern of peaks is not indicative of diesel

y = the pattern of peaks is not indicative of motor oil

n = MTCA Method A Cleanup level for all naphthalenes (total of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene)

Table 3. Summary of Analytical Data for Surface Water

Location ID		SW01	OF02	Maximum Ground Water Concentration	MTCA Method A Cleanup Levels for Groundwater	EPA Region VI SSLs Drinking Water (if no MTCA Cleanup Level)	Background Concentrations (metals) ¹	COPC ²
Sample ID		SW01-080710	OF02-080414					
Sample Type	Surface Water		Storm Water					
Date Sampled	7/10/2008		4/14/2008					
Location		Surface water from the northwestern portion of the log pond						
Constituent of Interest	Note	µg/L (ppb)		µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	Y/N
Polynuclear Aromatic Hydrocarbons								
Acenaphthene	nc, v	<10 ND	---	<10 ND	NE	370	NE	N
Anthracene	nc, v	<10 ND	---	<10 ND	NE	1800	NE	N
Benzo[a]anthracene	c, nv	<10 ND	---	<10 ND	0.1 (**)	---	NE	(Y)
Benzo[a]pyrene	---	<10 ND	---	<10 ND	0.1 (**)	---	NE	(Y)
Benzo[b]fluoranthene	c, nv	<10 ND	---	<10 ND	0.1 (**)	---	NE	(Y)
Benzo[k]fluoranthene	c, nv	<10 ND	---	<10 ND	0.1 (**)	---	NE	(Y)
Chrysene	c, nv	<10 ND	---	<10 ND	0.1 (**)	---	NE	(Y)
Dibenzo[a,h]anthracene	c, nv	<10 ND	---	<10 ND	0.1 (**)	---	NE	(Y)
Fluoranthene	nc, nv	<10 ND	---	<10 ND	NE	1500	NE	N
Fluorene	nc, v	<10 ND	---	<10 ND	NE	240	NE	N
Indeno[1,2,3-cd]pyrene	c, nv	<10 ND	---	<10 ND	0.1 (**)	---	NE	(Y)
Naphthalene	nc, v	540	<10 ND	540	---	---	---	Y
1-Methylnaphthalene	nc, v	<100 ND	---	<100 ND	160 n	---	NE	N
2-Methylnaphthalene	nc, v	<10 ND	---	<10 ND	---	---	---	N
Pyrene	nc, nv	<10 ND	---	<10 ND	NE	180	NE	N
Volatile Organic Constituents (VOCs)								
Acetone	c, v	450	<100 ND	<450 ND	NE	5500	NE	N
Benzene	c, v	<5 ND	<10 ND	<10 ND	5	---	NE	(Y)
Bromodichloromethane	c, v	<5 ND	<10 ND	<10 ND	NE	0.18	NE	(Y)
Bromoform	c, nv	<5 ND	<10 ND	<10 ND	NE	8.5	NE	(Y)
Bromomethane	nc, v	<5 ND	<10 ND	<10 ND	NE	8.7	NE	(Y)
2-Butanone (MEK)	nc, v	60	<100 ND	60	NE	7100	NE	N
Butylbenzene, n-	nc, v	<50 ND	---	<50 ND	NE	61	NE	N
Butylbenzene, sec-	nc, v	<5 ND	<10 ND	<10 ND	NE	240	NE	N
Carbon tetrachloride	c, v	<5 ND	<10 ND	<10 ND	NE	0.17	NE	(Y)
Chlorobenzene	nc, v	<5 ND	<10 ND	<10 ND	NE	91	NE	N
Chlorodibromomethane	c, nv	<5 ND	<10 ND	<10 ND	NE	0.13	NE	(Y)
Chloroethane	c, v	<5 ND	<10 ND	<10 ND	NE	NE	NE	N
Chloroform	nc, v	<5 ND	<10 ND	<10 ND	NE	0.17	NE	(Y)
Chloromethane	nc, v	<5 ND	<10 ND	<10 ND	NE	2.1	NE	(Y)
Dichlorobenzene, 1,2-	nc, v	<5 ND	<10 ND	<10 ND	NE	49	NE	N
Dichlorobenzene, 1,3-	nc, v	<5 ND	<10 ND	<10 ND	NE	14	NE	N
Dichlorobenzene, 1,4-	c, v	<5 ND	<10 ND	<10 ND	NE	0.47	NE	(Y)
Dichloroethane, 1,1-	c, v	<5 ND	<10 ND	<10 ND	NE	1200	NE	N
Dichloroethane, 1,1-	nc, v	<5 ND	<10 ND	<10 ND	NE	340	NE	N
Dichloroethane, cis-1,2-	nc, v	<5 ND	<10 ND	<10 ND	NE	61	NE	N
Dichloroethane, trans-1,2-	nc, v	<5 ND	<10 ND	<10 ND	NE	110	NE	N
Dichloroethylether	c, v	<50 ND	---	<50 ND	NE	NE	NE	N
Dichloromethane (methylene chloride)	c, v	<25 ND	<10 ND	<25 ND	5	---	NE	(Y)
EDB (1,2-dibromoethane)	c, v	<5 ND	<10 ND	<10 ND	0.01	---	NE	(Y)
EDC (1,2-dichloroethane)	c, v	<5 ND	<10 ND	<10 ND	5	---	NE	(Y)
Ethylbenzene	nc, v	<5 ND	<10 ND	<10 ND	700	---	NE	N
Isopropylbenzene, p-	---	73	<10 ND	73	NE	NE	NE	N
MTBE (methyl t-butyl ether)	c, v	<5 ND	---	<5 ND	20	---	NE	N
Naphthalene	nc, v	540	<10 ND	540	160 n	---	NE	Y
Propylbenzene, iso- (Cumene)	nc, v	<5 ND	<10 ND	<10 ND	NE	NE	NE	N
Propylbenzene, n-	nc, v	<5 ND	<10 ND	<10 ND	NE	61	NE	N
Styrene	nc, v	<5 ND	---	<5 ND	NE	0.1	NE	(Y)
Tetrachloroethene (PCE)	c, v	<5 ND	<10 ND	<10 ND	5	---	NE	(Y)
Toluene	nc, v	250	<10 ND	250	1000	---	NE	N
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	nc, v	<5 ND	---	<5 ND	NE	NE	NE	N
Trichloroethane, 1,1,1-	nc, v	<5 ND	<10 ND	<10 ND	200	---	NE	N
Trichloroethane, 1,1,2-	nc, v	<5 ND	<10 ND	<10 ND	NE	0.2	NE	(Y)
Trichloroethene	c, v	<5 ND	<10 ND	<10 ND	5	---	NE	(Y)
Trichlorofluoromethane (Freon 11)	nc, v	<5 ND	<10 ND	<10 ND	NE	1300	NE	N
Trimethylbenzene, 1,2,4-	nc, v	<5 ND	<10 ND	<10 ND	NE	12	NE	N
Trimethylbenzene, 1,3,5-	nc, v	<5 ND	<10 ND	<10 ND	NE	12	NE	N
Vinyl chloride	c, v	<1 ND	<2 ND	<2 ND	0.2	---	NE	(Y)
Xylenes	nc, v	<15 ND	<20 ND	<20 ND	1000	---	NE	N
Polychlorinated Biphenyls (PCBs)								
Aroclor 1016	c, nv	<0.1 (ND)	---	<0.1 ND	0.1	---	NE	N
Aroclor 1221	c, nv	<0.1 (ND)	---	<0.1 ND	0.1	---	NE	N
Aroclor 1232	c, nv	<0.1 (ND)	---	<0.1 ND	0.1	---	NE	N
Aroclor 1242	c, nv	<0.1 (ND)	---	<0.1 ND	0.1	---	NE	N
Aroclor 1248	c, nv	<0.1 (ND)	---	<0.1 ND	0.1	---	NE	N
Aroclor 1254	c, nv	<0.1 (ND)	---	<0.1 ND	0.1	---	NE	N
Aroclor 1260	c, nv	<0.1 (ND)	---	<0.1 ND	0.1	---	NE	N

Table 3. Summary of Analytical Data for Surface Water

Location ID		SW01	OF02	Maximum Ground Water Concentration	MTCA Method A Cleanup Levels for Groundwater	EPA Region VI SSLs Drinking Water (if no MTCA Cleanup Level)	Background Concentrations (metals) ¹	COPC? ²
Sample ID		SW01-080710	OF02-080414					
Sample Type	Surface Water	Storm Water						
Date Sampled	7/10/2008	4/14/2008						
Location		Surface water from the northwestern portion of the log pond						
Constituent of Interest		Note	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	Y/N
Non-Volatile Organic Constituents (SVOCs)								
Benzoic acid	nc, nv	900	---	900	NE	150,000	NE	N
Benzyl butyl phthalate	nc, nv	<10 (ND)	---	<10 ND	NE	7,300	NE	N
Bis(2-ethylhexyl)phthalate	c, nv	<100 (ND)	---	<100 ND	NE	4.8	NE	(Y)
Dibenzofuran	nc, nv	<10 (ND)	---	<10 ND	NE	12	NE	N
Diethyl phthalate	nc, nv	<10 (ND)	---	<10 ND	NE	29,000	NE	N
Dimethyl phthalate	nc, nv	<10 (ND)	---	<10 ND	NE	370,000	NE	N
Dinitrotoluene, 2,6-	nc, nv	<10 (ND)	---	<10 ND	NE	37	NE	N
Di-n-butyl phthalate	nc, nv	<10 (ND)	---	<10 ND	NE	NE	NE	N
Di-n-octyl phthalate	nc, nv	<10 (ND)	---	<10 ND	NE	NE	NE	N
Hexachloroethane	c, nv	<10 (ND)	---	<10 ND	NE	4.8	NE	(Y)
4-Methylphenol	nc, nv	8,300	---	6300	NE	180	NE	Y
Pentachlorophenol	c, nv	<100 (ND)	---	<100 ND	NE	0.56	NE	(Y)
Phenol	c, nv	970	---	970	NE	11,000	NE	N
Trichlorophenol, 2,4,6-	c, nv	<100 (ND)	---	<100 ND	NE	0.008	NE	(Y)
Metals								
Arsenic	c, nv	9.23	---	9.23	5	---	2 (OR)	Y
Antimony	nc, nv	1.09	---	1.09	NE	15	NE	N
Barium	nc, nv	160	---	160	NE	7300	NE	N
Beryllium	nc, nv	<1 (ND)	---	<1 (ND)	NE	73	NE	N
Cadmium	c, nv	<1 (ND)	---	<1 (ND)	5	---	1 (OR)	N
Total Chromium	c,nc, nv	13.1	---	13.1	50	---	1 (OR)	(N)
Copper	nc, nv	22.2	39.8	39.8	NE	1400	NE	N
Lead	NA, nv	5.26	17.5	17.50	15	---	13.3 (OR)	Y
Mercury	nc, nv	<0.2 (ND)	---	<0.2 (ND)	2	---	0.1 (OR)	(Y)
Nickel	nc, nv	15.2	---	15.2	NE	730	NE	N
Selenium	nc, nv	<1 (ND)	---	<1 (ND)	NE	180	NE	N
Silver	nc, nv	<1 (ND)	---	<1 (ND)	NE	180	1 (OR)	N
Thallium	nc, nv	<1 (ND)	---	<1 (ND)	NE	2.6	NE	N
Zinc	nc, nv	163	504	504	NE	11000	NE	N
Total Petroleum Hydrocarbons								
GRO	nc, v	990	---	990	800	---	NE	Y
DRO	nc, nv	58,000	23,000	58,000	500	---	NE	Y
RRO	nc, nv	5,500	---	5,500	500	---	NE	Y

Notes:

--- = not analyzed or not applicable.

ND = not detected at or above the method reporting limit shown.

NE = not established.

µg/L = micrograms per liter

c = carcinogenic

nc = noncarcinogenic

v = volatile

nv = nonvolatile

GRO = gasoline-range organics.

DRO = diesel-range organics.

RRO = residual-range organics.

Bolded concentrations exceed MTCA Method A Cleanup Levels or EPA Region XI SSLs (indicated with a Y in the last column)

(Y) indicates analyte not detected, but detection limit is above screening concentration.

(N) indicates analyte does not exceed cleanup screening level; however, does exceed background concentration

¹ (OR) The State of Washington has not calculated background concentrations for metals in water; therefore, the concentrations listed are derived from the State of Oregon background concentrations² MTCA Method A used as primary screening. EPA Region XI SSLs used only if no MTCA Standard available

* All Chromium is here evaluated as total chromium Chromium VI to be conservative

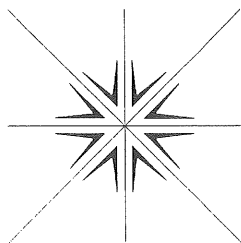
** Cleanup level of carcinogenic PAHs based on cleanup standard for benzo[a]pyrene. Toxic equivalency factors must be used to take into account presence of other carcinogenic PAHs.

n = MTCA Method A Cleanup level for all naphthalenes (total of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene)

APPENDIX D

LABORATORY ANALYTICAL RESULTS





Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
(503) 607-1331
Fax (503) 607-1336

September 23, 2011

Christina Johnson
Maul, Foster & Alongi
7223 NE Hazel Dell Avenue
Suite B
Vancouver, WA 98665

TEL: (360) 694-2691

FAX: (360) 906-1958

RE: Port of Camas / 0229.04.01

Dear Christina Johnson:

Order No.: 1109044

Specialty Analytical received 3 samples on 9/7/2011 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,


Cindy Hillyard
Project Manager


Technical Review

Specialty Analytical

Date: 23-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109044
Project: Port of Camas / 0229.04.01
Lab ID: 1109044-01

Client Sample ID: MW2
Collection Date: 9/6/2011 10:08:00 AM
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrp
Diesel	ND	0.0765		mg/L	1	9/9/2011
Lube Oil	ND	0.191		mg/L	1	9/9/2011
Surr: o-Terphenyl	80.7	50-150		%REC	1	9/9/2011
NWTPH-GX		NWTPH-GX				Analyst: jrp
Gasoline	ND	100		µg/L	1	9/8/2011
Surr: 4-Bromofluorobenzene	93.3	50-150		%REC	1	9/8/2011

Specialty Analytical

Date: 23-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109044
Project: Port of Camas / 0229.04.01
Lab ID: 1109044-02

Client Sample ID: MW3
Collection Date: 9/6/2011 2:20:00 PM
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrp
Diesel	ND	0.0791		mg/L	1	9/9/2011
Lube Oil	ND	0.198		mg/L	1	9/9/2011
Surr: o-Terphenyl	84.0	50-150		%REC	1	9/9/2011
NWTPH-GX		NWTPH-GX				Analyst: jrp
Gasoline	ND	100		µg/L	1	9/8/2011
Surr: 4-Bromofluorobenzene	95.8	50-150		%REC	1	9/8/2011

Specialty Analytical

Date: 23-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109044
Project: Port of Camas / 0229.04.01
Lab ID: 1109044-03

Client Sample ID: MW4
Collection Date: 9/6/2011 6:20:00 PM
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrj
Diesel	0.128	0.0761	A1	mg/L	1	9/9/2011
Lube Oil	ND	0.190		mg/L	1	9/9/2011
Surr: o-Terphenyl	81.1	50-150		%REC	1	9/9/2011
NWTPH-GX		NWTPH-GX				Analyst: jrj
Gasoline	ND	100		µg/L	1	9/8/2011
Surr: 4-Bromofluorobenzene	97.1	50-150		%REC	1	9/8/2011
TOTAL METALS BY ICP/MS		SW6020				Analyst: zau
Arsenic	0.171	0.100		µg/L	1	9/22/2011 6:23:00 PM
Cadmium	ND	0.100		µg/L	1	9/22/2011 6:23:00 PM
Lead	ND	0.100		µg/L	1	9/22/2011 6:23:00 PM
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: jrj
1-Methylnaphthalene	ND	0.0480		µg/L	1	9/9/2011 5:34:00 PM
2-Methylnaphthalene	ND	0.0480		µg/L	1	9/9/2011 5:34:00 PM
Acenaphthene	ND	0.0480		µg/L	1	9/9/2011 5:34:00 PM
Acenaphthylene	ND	0.0480		µg/L	1	9/9/2011 5:34:00 PM
Anthracene	ND	0.0480		µg/L	1	9/9/2011 5:34:00 PM
Benz(a)anthracene	ND	0.0480		µg/L	1	9/9/2011 5:34:00 PM
Benzo(a)pyrene	ND	0.0480		µg/L	1	9/9/2011 5:34:00 PM
Benzo(b)fluoranthene	ND	0.0480		µg/L	1	9/9/2011 5:34:00 PM
Benzo(g,h,i)perylene	ND	0.0480		µg/L	1	9/9/2011 5:34:00 PM
Benzo(k)fluoranthene	ND	0.0480		µg/L	1	9/9/2011 5:34:00 PM
Chrysene	ND	0.0480		µg/L	1	9/9/2011 5:34:00 PM
Dibenz(a,h)anthracene	ND	0.0480		µg/L	1	9/9/2011 5:34:00 PM
Fluoranthene	ND	0.0480		µg/L	1	9/9/2011 5:34:00 PM
Fluorene	ND	0.0480		µg/L	1	9/9/2011 5:34:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0480		µg/L	1	9/9/2011 5:34:00 PM
Naphthalene	ND	0.0480		µg/L	1	9/9/2011 5:34:00 PM
Phenanthrene	ND	0.0480		µg/L	1	9/9/2011 5:34:00 PM
Pyrene	ND	0.0480		µg/L	1	9/9/2011 5:34:00 PM
Surr: 2-Fluorobiphenyl	46.6	18.6-106		%REC	1	9/9/2011 5:34:00 PM
Surr: Nitrobenzene-d5	50.2	17-130		%REC	1	9/9/2011 5:34:00 PM
Surr: p-Terphenyl-d14	58.7	39.6-131		%REC	1	9/9/2011 5:34:00 PM
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: rkg
Benzene	ND	0.300		µg/L	1	9/13/2011 11:30:00 PM
Ethylbenzene	ND	1.00		µg/L	1	9/13/2011 11:30:00 PM
m,p-Xylene	ND	2.00		µg/L	1	9/13/2011 11:30:00 PM
o-Xylene	ND	1.00		µg/L	1	9/13/2011 11:30:00 PM
Toluene	ND	1.00		µg/L	1	9/13/2011 11:30:00 PM
Surr: 1,2-Dichloroethane-d4	98.4	72.2-129		%REC	1	9/13/2011 11:30:00 PM

Specialty Analytical

Date: 23-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109044
Project: Port of Camas / 0229.04.01
Lab ID: 1109044-03

Client Sample ID: MW4
Collection Date: 9/6/2011 6:20:00 PM
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: rkg
Surr: 4-Bromofluorobenzene	90.4	73.5-125		%REC	1	9/13/2011 11:30:00 PM
Surr: Dibromofluoromethane	96.9	58.8-148		%REC	1	9/13/2011 11:30:00 PM
Surr: Toluene-d8	97.1	79.8-137		%REC	1	9/13/2011 11:30:00 PM

CLIENT: Maul, Foster & Alongi
Work Order: 1109044
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT**TestCode: 6020_W**

Sample ID: MBLK-29493	SampType: MBLK	TestCode: 6020_W	Units: µg/L	Prep Date: 9/22/2011	Run ID: ICPMS_110922A						
Client ID: ZZZZZ	Batch ID: 29493	TestNo: SW6020		Analysis Date: 9/22/2011	SeqNo: 778762						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.100									
Cadmium	ND	0.100									
Lead	0.03077	0.100									J

Sample ID: LCS-29493	SampType: LCS	TestCode: 6020_W	Units: µg/L	Prep Date: 9/22/2011	Run ID: ICPMS_110922A						
Client ID: ZZZZZ	Batch ID: 29493	TestNo: SW6020		Analysis Date: 9/22/2011	SeqNo: 778763						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	49.62	0.100	50	0	99.2	80	120	0	0		
Cadmium	51.6	0.100	50	0	103	80	120	0	0		
Lead	49.99	0.100	50	0	100	80	120	0	0		

Sample ID: 1109128-14BMS	SampType: MS	TestCode: 6020_W	Units: µg/L	Prep Date: 9/22/2011	Run ID: ICPMS_110922A						
Client ID: ZZZZZ	Batch ID: 29493	TestNo: SW6020		Analysis Date: 9/22/2011	SeqNo: 778766						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	75.73	0.100	50	25.24	101	70	130	0	0		
Cadmium	51.5	0.100	50	0.03492	103	70	130	0	0		
Lead	50.63	0.100	50	0.05632	101	70	130	0	0		

Sample ID: 1109128-14BMSD	SampType: MSD	TestCode: 6020_W	Units: µg/L	Prep Date: 9/22/2011	Run ID: ICPMS_110922A						
Client ID: ZZZZZ	Batch ID: 29493	TestNo: SW6020		Analysis Date: 9/22/2011	SeqNo: 778767						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	74.86	0.100	50	25.24	99.2	70	130	75.73	1.16	20	
Cadmium	50.71	0.100	50	0.03492	101	70	130	51.5	1.55	20	
Lead	49.87	0.100	50	0.05632	99.6	70	130	50.63	1.51	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109044
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W

Sample ID: 1109128-14BDUP	SampType: DUP	TestCode: 6020_W	Units: µg/L	Prep Date: 9/22/2011	Run ID: ICPMS_110922A						
Client ID: ZZZZZ	Batch ID: 29493	TestNo: SW6020		Analysis Date: 9/22/2011	SeqNo: 778765						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	24.9	0.100	0	0	0	0	0	25.24	1.36	20	
Cadmium	0.02225	0.100	0	0	0	0	0	0.03492	0	20	J
Lead	0.04659	0.100	0	0	0	0	0	0.05632	0	20	J

Sample ID: CCV	SampType: CCV	TestCode: 6020_W	Units: µg/L	Prep Date:	Run ID: ICPMS_110922A						
Client ID: ZZZZZ	Batch ID: 29493	TestNo: SW6020		Analysis Date: 9/22/2011	SeqNo: 778768						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	51.32	0.100	50	0	103	90	110	0	0		
Cadmium	50.03	0.100	50	0	100	90	110	0	0		
Lead	48.94	0.100	50	0	97.9	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_W	Units: µg/L	Prep Date:	Run ID: ICPMS_110922A						
Client ID: ZZZZZ	Batch ID: 29493	TestNo: SW6020		Analysis Date: 9/22/2011	SeqNo: 778779						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	51.75	0.100	50	0	104	90	110	0	0		
Cadmium	50.1	0.100	50	0	100	90	110	0	0		
Lead	48.99	0.100	50	0	98	90	110	0	0		

Sample ID: CCV		SampType: CCV		TestCode: 6020_W		Units: µg/L		Prep Date:		Run ID: ICPMS_110922A	
Client ID: ZZZZZ		Batch ID: 29493		TestNo: SW6020				Analysis Date: 9/22/2011		SeqNo: 778790	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	51.76	0.100	50	0	104	90	110	0	0		
Cadmium	50.3	0.100	50	0	101	90	110	0	0		
Lead	49.37	0.100	50	0	98.7	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109044
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W

Sample ID: ICV	SampType: ICV	TestCode: 6020_W	Units: µg/L	Prep Date:	Run ID: ICPMS_110922A						
Client ID: ZZZZZ	Batch ID: 29493	TestNo: SW6020		Analysis Date: 9/22/2011	SeqNo: 778761						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	52.22	0.100	50	0	104	90	110	0	0		
Cadmium	50.08	0.100	50	0	100	90	110	0	0		
Lead	49.34	0.100	50	0	98.7	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109044
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: MBLK-29421	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	Run ID: 5973L_110913B						
Client ID: ZZZZZ	Batch ID: 29421	TestNo: SW8260B		Analysis Date: 9/13/2011	SeqNo: 776540						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	0.300									
Ethylbenzene	ND	1.00									
m,p-Xylene	ND	2.00									
o-Xylene	ND	1.00									
Toluene	ND	1.00									
Surr: 1,2-Dichloroethane-d4	98.16	0	100	0	98.2	72.2	129	0	0		
Surr: 4-Bromofluorobenzene	88.66	0	100	0	88.7	73.5	125	0	0		
Surr: Dibromofluoromethane	95.53	0	100	0	95.5	58.8	148	0	0		
Surr: Toluene-d8	97.2	0	100	0	97.2	79.8	137	0	0		

Sample ID: LCS-29421	SampType: LCS	TestCode: 8260_W	Units: µg/L	Prep Date: 9/13/2011	Run ID: 5973L_110913B						
Client ID: ZZZZZ	Batch ID: 29421	TestNo: SW8260B		Analysis Date: 9/13/2011	SeqNo: 776555						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	38.47	0.300	40	0	96.2	77.9	125	0	0		
Toluene	39.67	1.00	40	0	99.2	74.6	119	0	0		

Sample ID: 1109023-08CMS	SampType: MS	TestCode: 8260_W	Units: µg/L	Prep Date: 9/13/2011	Run ID: 5973L_110913B						
Client ID: ZZZZZ	Batch ID: 29421	TestNo: SW8260B		Analysis Date: 9/14/2011	SeqNo: 776552						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	23.05	0.300	40	0.47	56.4	71.5	118	0	0		S,MI
Toluene	29.28	1.00	40	5.45	59.6	79.6	121	0	0		S,MI

Sample ID: 1109023-08CMSD	SampType: MSD	TestCode: 8260_W	Units: µg/L	Prep Date: 9/13/2011	Run ID: 5973L_110913B						
Client ID: ZZZZZ	Batch ID: 29421	TestNo: SW8260B		Analysis Date: 9/14/2011	SeqNo: 776553						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	34.18	0.300	40	0.47	84.3	71.5	118	23.05	38.9	20	R,MI
Toluene	40.19	1.00	40	5.45	86.9	79.6	121	29.28	31.4	20	R,MI

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109044
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: CCV-29421	SampType: CCV	TestCode: 8260_W	Units: µg/L	Prep Date:	Run ID: 5973L_110913B						
Client ID: ZZZZZ	Batch ID: 29421	TestNo: SW8260B		Analysis Date: 9/13/2011	SeqNo: 776538						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	38.79	1.00	40	0	97	80	120	0	0		
Toluene	39.26	1.00	40	0	98.2	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109044
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDXLL_W

Sample ID: MB-29372	SampType: MBLK	TestCode: NWTPHDXLL	Units: mg/L	Prep Date: 9/8/2011	Run ID: GC-M_110909B						
Client ID: ZZZZZ	Batch ID: 29372	TestNo: NWTPH-Dx		Analysis Date: 9/9/2011	SeqNo: 775989						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	0.0800									
Lube Oil	ND	0.200									
Surr: o-Terphenyl	0.1723	0	0.2	0	86.2	50	150	0	0		

Sample ID: LCS-29372		SampType: LCS		TestCode: NWTPHDXLL		Units: mg/L		Prep Date: 9/8/2011		Run ID: GC-M_110909B	
Client ID: ZZZZZ		Batch ID: 29372		TestNo: NWTPH-Dx				Analysis Date: 9/9/2011		SeqNo: 775990	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	0.9174	0.0800	1	0	91.7	60.7	121	0	0		
Lube Oil	0.916	0.200	1	0	91.6	64	126	0	0		

Sample ID: LCSD-29372	SampType: LCSD	TestCode: NWTPHDXLL	Units: mg/L	Prep Date: 9/8/2011	Run ID: GC-M_110909B						
Client ID: ZZZZZ	Batch ID: 29372	TestNo: NWTPH-Dx		Analysis Date: 9/9/2011	SeqNo: 775991						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1.01	0.0800	1	0	101	60.7	121	0.9174	9.60	20	
Lube Oil	1.085	0.200	1	0	109	64	126	0.916	16.9	20	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXLL	Units: mg/L	Prep Date:				Run ID: GC-M_110909B			
Client ID: ZZZZZ	Batch ID: 29372	TestNo: NWTPH-Dx		Analysis Date: 9/9/2011				SeqNo: 775988			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	6.45	0.0800	6.057	0	106	85	115	0	0		
Lube Oil	3.501	0.200	3.15	0	111	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXLL	Units: mg/L	Prep Date:	Run ID: GC-M_110909B						
Client ID: ZZZZZ	Batch ID: 29372	TestNo: NWTPH-Dx		Analysis Date: 9/9/2011	SeqNo: 776002						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	8.037	0.0800	8.076	0	99.5	85	115	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109044
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDXLL_W

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXLL Units: mg/L				Prep Date:			Run ID: GC-M_110909B		
Client ID: ZZZZZ	Batch ID: 29372	TestNo: NWTPH-Dx				Analysis Date: 9/9/2011			SeqNo: 776002		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lube Oil	4.294	0.200	4.2	0	102	85	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109044
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHGX_W

Sample ID: MB-29363	SampType: MBLK	TestCode: NWTPHGX_	Units: µg/L	Prep Date: 9/7/2011	Run ID: GC-I_110908B						
Client ID: ZZZZZ	Batch ID: 29363	TestNo: NWTPH-Gx		Analysis Date: 9/8/2011	SeqNo: 775343						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	20.93	100									J
Surr: 4-Bromofluorobenzene	92.09	0	100	0	92.1	50	150	0	0		

Sample ID: LCS-29363	SampType: LCS	TestCode: NWTPHGX_	Units: µg/L	Prep Date: 9/7/2011	Run ID: GC-I_110908B						
Client ID: ZZZZZ	Batch ID: 29363	TestNo: NWTPH-Gx		Analysis Date: 9/8/2011	SeqNo: 775342						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	2534	100	2500	0	101	74.4	128	0	0		
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Sample ID: 1109023-09CDUP	SampType: DUP	TestCode: NWTPHGX_	Units: µg/L	Prep Date: 9/7/2011	Run ID: GC-I_110908B						
Client ID: ZZZZZ	Batch ID: 29363	TestNo: NWTPH-Gx		Analysis Date: 9/8/2011	SeqNo: 775347						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	100	0	0	0	0	0	42.18	0	20	
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Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_	Units: µg/L	Prep Date:				Run ID: GC-I_110908B			
Client ID: ZZZZZ	Batch ID: 29363	TestNo: NWTPH-Gx		Analysis Date: 9/8/2011				SeqNo: 775351			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	2622	100	3000	0	87.4	80	120	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109044
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_W

Sample ID: MB-29373	SampType: MBLK	TestCode: PAHLL_W	Units: µg/L	Prep Date: 9/8/2011	Run ID: 5975Q_110909A						
Client ID: ZZZZZ	Batch ID: 29373	TestNo: 8270SIM		Analysis Date: 9/9/2011	SeqNo: 775801						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.01	0.0500									J
2-Methylnaphthalene	0.01	0.0500									J
Acenaphthene	ND	0.0500									
Acenaphthylene	ND	0.0500									
Anthracene	0.01	0.0500									J
Benz(a)anthracene	0.01	0.0500									J
Benzo(a)pyrene	0.01	0.0500									J
Benzo(b)fluoranthene	0.01	0.0500									J
Benzo(g,h,i)perylene	ND	0.0500									
Benzo(k)fluoranthene	0.01	0.0500									J
Chrysene	0.01	0.0500									J
Dibenz(a,h)anthracene	ND	0.0500									
Fluoranthene	0.01	0.0500									J
Fluorene	ND	0.0500									
Indeno(1,2,3-cd)pyrene	ND	0.0500									
Naphthalene	0.08	0.0500									
Phenanthrene	0.01	0.0500									J
Pyrene	0.01	0.0500									J
Surr: 2-Fluorobiphenyl	44.77	1.00	100	0	44.8	18.6	106	0	0		
Surr: Nitrobenzene-d5	44.67	1.00	100	0	44.7	17	130	0	0		
Surr: p-Terphenyl-d14	49.35	1.00	100	0	49.4	39.6	131	0	0		

Sample ID: LCS-29373	SampType: LCS	TestCode: PAHLL_W	Units: µg/L	Prep Date: 9/8/2011	Run ID: 5975Q_110909A						
Client ID: ZZZZZ	Batch ID: 29373	TestNo: 8270SIM		Analysis Date: 9/9/2011	SeqNo: 775805						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	2.88	0.0500	5	0	57.6	25.6	106	0	0		
2-Methylnaphthalene	3.07	0.0500	5	0	61.4	25.6	106	0	0		
Acenaphthene	2.88	0.0500	5	0	57.6	35.1	100	0	0		
Benzo(a)pyrene	3.01	0.0500	5	0	60.2	23.4	103	0	0		
Benzo(g,h,i)perylene	2.91	0.0500	5	0	58.2	20.8	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109044
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_W

Sample ID: LCS-29373	SampType: LCS	TestCode: PAHLL_W	Units: µg/L	Prep Date: 9/8/2011	Run ID: 5975Q_110909A						
Client ID: ZZZZZ	Batch ID: 29373	TestNo: 8270SIM		Analysis Date: 9/9/2011	SeqNo: 775805						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chrysene	3.15	0.0500	5	0	63	39.1	119	0	0		
Naphthalene	2.8	0.0500	5	0	56	25.6	106	0	0		B
Phenanthrene	2.97	0.0500	5	0	59.4	38.1	106	0	0		
Pyrene	3.63	0.0500	5	0	72.6	41.3	118	0	0		

Sample ID: LCSD-29373	SampType: LCSD	TestCode: PAHLL_W	Units: µg/L	Prep Date: 9/8/2011	Run ID: 5975Q_110909A						
Client ID: ZZZZZ	Batch ID: 29373	TestNo: 8270SIM		Analysis Date: 9/9/2011	SeqNo: 775806						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	2.42	0.0500	5	0	48.4	25.6	106	2.88	17.4	20	
2-Methylnaphthalene	2.51	0.0500	5	0	50.2	25.6	106	3.07	20.1	20	R
Acenaphthene	2.4	0.0500	5	0	48	35.1	100	2.88	18.2	20	
Benzo(a)pyrene	2.46	0.0500	5	0	49.2	23.4	103	3.01	20.1	20	R
Benzo(g,h,i)perylene	2.16	0.0500	5	0	43.2	20.8	120	2.91	29.6	20	R
Chrysene	2.51	0.0500	5	0	50.2	39.1	119	3.15	22.6	20	R
Naphthalene	2.24	0.0500	5	0	44.8	25.6	106	2.8	22.2	20	BR
Phenanthrene	2.43	0.0500	5	0	48.6	38.1	106	2.97	20.0	20	
Pyrene	2.77	0.0500	5	0	55.4	41.3	118	3.63	26.9	20	R

Sample ID: CCB-29373	SampType: CCB	TestCode: PAHLL_W	Units: µg/L	Prep Date:					Run ID: 5975Q_110909A		
Client ID: ZZZZZ	Batch ID: 29373	TestNo: 8270SIM		Analysis Date: 9/14/2011					SeqNo: 776762		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	0.01	0.0500	0	0	0	0	0	0	0		
Acenaphthylene	0.01	0.0500	0	0	0	0	0	0	0		
Anthracene	0.02	0.0500	0	0	0	0	0	0	0		
Benz(a)anthracene	0.1	0.0500	0	0	0	0	0	0	0		
Benzo(a)pyrene	0.07	0.0500	0	0	0	0	0	0	0		
Benzo(b)fluoranthene	0.09	0.0500	0	0	0	0	0	0	0		
Benzo(g,h,i)perylene	0.04	0.0500	0	0	0	0	0	0	0		
Benzo(k)fluoranthene	0.09	0.0500	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109044
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_W

Sample ID: CCB-29373	SampType: CCB	TestCode: PAHLL_W	Units: µg/L	Prep Date:	Run ID: 5975Q_110909A						
Client ID: ZZZZZ	Batch ID: 29373	TestNo: 8270SIM		Analysis Date: 9/14/2011	SeqNo: 776762						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chrysene	0.1	0.0500	0	0	0	0	0	0	0		
Dibenz(a,h)anthracene	0.06	0.0500	0	0	0	0	0	0	0		
Fluoranthene	0.02	0.0500	0	0	0	0	0	0	0		
Fluorene	0.01	0.0500	0	0	0	0	0	0	0		
Indeno(1,2,3-cd)pyrene	0.06	0.0500	0	0	0	0	0	0	0		
Naphthalene	0.11	0.0500	0	0	0	0	0	0	0		B
Phenanthrene	0.04	0.0500	0	0	0	0	0	0	0		
Pyrene	0.02	0.0500	0	0	0	0	0	0	0		
Surr: 2-Fluorobiphenyl	50.48	1.00	100	0	50.5	18.6	106	0	0		
Surr: Nitrobenzene-d5	49.53	1.00	100	0	49.5	17	130	0	0		
Surr: p-Terphenyl-d14	58.01	1.00	100	0	58	39.6	131	0	0		

Sample ID: CCV	SampType: CCV	TestCode: PAHLL_W	Units: µg/L	Prep Date:	Run ID: 5975Q_110909A						
Client ID: ZZZZZ	Batch ID: 29373	TestNo: 8270SIM		Analysis Date: 9/9/2011	SeqNo: 775800						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	1.1	0.0500	1	0	110	70	130	0	0		
2-Methylnaphthalene	1.18	0.0500	1	0	118	70	130	0	0		
Acenaphthene	0.97	0.0500	1	0	97	70	130	0	0		
Acenaphthylene	0.94	0.0500	1	0	94	70	130	0	0		
Anthracene	0.84	0.0500	1	0	84	70	130	0	0		
Benz(a)anthracene	0.99	0.0500	1	0	99	70	130	0	0		
Benzo(a)pyrene	0.97	0.0500	1	0	97	70	130	0	0		
Benzo(b)fluoranthene	1.05	0.0500	1	0	105	70	130	0	0		
Benzo(g,h,i)perylene	0.91	0.0500	1	0	91	70	130	0	0		
Benzo(k)fluoranthene	1.03	0.0500	1	0	103	70	130	0	0		
Chrysene	1.08	0.0500	1	0	108	70	130	0	0		
Dibenz(a,h)anthracene	0.95	0.0500	1	0	95	70	130	0	0		
Fluoranthene	0.86	0.0500	1	0	86	70	130	0	0		
Fluorene	0.93	0.0500	1	0	93	70	130	0	0		
Indeno(1,2,3-cd)pyrene	1.02	0.0500	1	0	102	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109044
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_W

Sample ID: CCV	SampType: CCV	TestCode: PAHLL_W	Units: µg/L	Prep Date:	Run ID: 5975Q_110909A						
Client ID: ZZZZZ	Batch ID: 29373	TestNo: 8270SIM	Analysis Date: 9/9/2011	SeqNo: 775800							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1.03	0.0500	1	0	103	70	130	0	0		B
Phenanthrene	0.96	0.0500	1	0	96	70	130	0	0		
Pyrene	1.2	0.0500	1	0	120	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

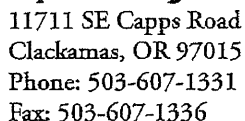
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result great than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.



Page of

Portland, OR 97209

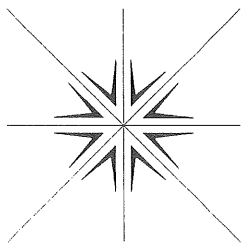
Invoice To _____ P.O. No. _____

Printed: Mike Murray

☐ Rush

Specify

Rush Analyses Must Be Scheduled With The Lab In Advance



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
(503) 607-1331
Fax (503) 607-1336

September 22, 2011

Christina Johnson
Maul, Foster & Alongi
7223 NE Hazel Dell Avenue
Suite B
Vancouver, WA 98665
TEL: (360) 694-2691
FAX: (360) 906-1958

RE: Port of Camas / 0229.04.03

Dear Christina Johnson:

Order No.: 1109045

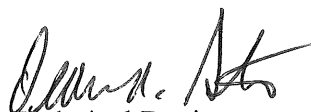
Specialty Analytical received 11 samples on 9/7/2011 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,


Cindy Hillyard
Project Manager


Technical Review

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109045
Project: Port of Camas / 0229.04.03
Lab ID: 1109045-01

Client Sample ID: TP-1-3
Collection Date: 9/6/2011 8:55:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						
			NWHCID		Analyst: jrp	
Gasoline	ND	27.5		mg/Kg-dry	1	9/8/2011
Mineral Spirits	ND	27.5		mg/Kg-dry	1	9/8/2011
Kerosene	ND	68.9		mg/Kg-dry	1	9/8/2011
Diesel	ND	68.9		mg/Kg-dry	1	9/8/2011
Lube Oil	Lube Oil	138		mg/Kg-dry	1	9/8/2011
Surr: BFB	133	50-150		%REC	1	9/8/2011
Surr: o-Terphenyl	113	50-150		%REC	1	9/8/2011
NWTPH-DX						
			NWTPH-DX		Analyst: jrp	
Diesel	305	20.7	A1	mg/Kg-dry	1	9/13/2011
Lube Oil	1180	68.9	A2	mg/Kg-dry	1	9/13/2011
Surr: o-Terphenyl	104	50-150		%REC	1	9/13/2011
LOW LEVEL PAH BY GC/MS						
			8270SIM		Analyst: jrp	
1-Methylnaphthalene	64.3	9.19		µg/Kg-dry	1	9/9/2011 10:01:00 PM
2-Methylnaphthalene	69.8	9.19		µg/Kg-dry	1	9/9/2011 10:01:00 PM
Acenaphthene	31.2	9.19		µg/Kg-dry	1	9/9/2011 10:01:00 PM
Acenaphthylene	21.1	9.19		µg/Kg-dry	1	9/9/2011 10:01:00 PM
Anthracene	ND	9.19		µg/Kg-dry	1	9/9/2011 10:01:00 PM
Benz(a)anthracene	22.0	9.19		µg/Kg-dry	1	9/9/2011 10:01:00 PM
Benzo(a)pyrene	20.2	9.19		µg/Kg-dry	1	9/9/2011 10:01:00 PM
Benzo(b)fluoranthene	29.4	9.19		µg/Kg-dry	1	9/9/2011 10:01:00 PM
Benzo(g,h,i)perylene	21.1	9.19		µg/Kg-dry	1	9/9/2011 10:01:00 PM
Benzo(k)fluoranthene	ND	9.19		µg/Kg-dry	1	9/9/2011 10:01:00 PM
Chrysene	33.1	9.19		µg/Kg-dry	1	9/9/2011 10:01:00 PM
Dibenz(a,h)anthracene	ND	9.19		µg/Kg-dry	1	9/9/2011 10:01:00 PM
Fluoranthene	27.5	9.19		µg/Kg-dry	1	9/9/2011 10:01:00 PM
Fluorene	21.1	9.19		µg/Kg-dry	1	9/9/2011 10:01:00 PM
Indeno(1,2,3-cd)pyrene	10.1	9.19		µg/Kg-dry	1	9/9/2011 10:01:00 PM
Naphthalene	71.6	9.19		µg/Kg-dry	1	9/9/2011 10:01:00 PM
Phenanthrene	33.1	9.19		µg/Kg-dry	1	9/9/2011 10:01:00 PM
Pyrene	44.1	9.19		µg/Kg-dry	1	9/9/2011 10:01:00 PM
Surr: 2-Fluorobiphenyl	68.2	42.6-128		%REC	1	9/9/2011 10:01:00 PM
Surr: Nitrobenzene-d5	68.7	21.7-155		%REC	1	9/9/2011 10:01:00 PM
Surr: p-Terphenyl-d14	65.4	44.9-155		%REC	1	9/9/2011 10:01:00 PM
PCB'S IN SOIL						
			SW8082		Analyst: jrp	
Aroclor 1016	ND	0.459		µg/Kg-dry	1	9/12/2011
Aroclor 1221	ND	0.459		µg/Kg-dry	1	9/12/2011
Aroclor 1232	ND	0.459		µg/Kg-dry	1	9/12/2011
Aroclor 1242	ND	0.459		µg/Kg-dry	1	9/12/2011
Aroclor 1248	ND	0.459		µg/Kg-dry	1	9/12/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109045
Project: Port of Camas / 0229.04.03
Lab ID: 1109045-01

Client Sample ID: TP-1-3
Collection Date: 9/6/2011 8:55:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082		Analyst: jrp		
Aroclor 1254	ND	0.459		µg/Kg-dry	1	9/12/2011
Aroclor 1260	ND	0.459		µg/Kg-dry	1	9/12/2011
Aroclor 1262	ND	0.459		µg/Kg-dry	1	9/12/2011
Aroclor 1268	ND	0.459		µg/Kg-dry	1	9/12/2011
Surr: Decachlorobiphenyl	130	56.5-130	S	%REC	1	9/12/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109045
Project: Port of Camas / 0229.04.03
Lab ID: 1109045-02

Client Sample ID: TP-2-3.5
Collection Date: 9/6/2011 9:45:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						
NWHCID				Analyst: jrp		
Gasoline	ND	25.1		mg/Kg-dry	1	9/8/2011
Mineral Spirits	ND	25.1		mg/Kg-dry	1	9/8/2011
Kerosene	ND	62.8		mg/Kg-dry	1	9/8/2011
Diesel	ND	62.8		mg/Kg-dry	1	9/8/2011
Lube Oil	ND	126		mg/Kg-dry	1	9/8/2011
Surr: BFB	109	50-150		%REC	1	9/8/2011
Surr: o-Terphenyl	110	50-150		%REC	1	9/8/2011
LOW LEVEL PAH BY GC/MS						
8270SIM				Analyst: jrp		
1-Methylnaphthalene	ND	8.38		µg/Kg-dry	1	9/9/2011 10:28:00 PM
2-Methylnaphthalene	ND	8.38		µg/Kg-dry	1	9/9/2011 10:28:00 PM
Acenaphthene	9.21	8.38		µg/Kg-dry	1	9/9/2011 10:28:00 PM
Acenaphthylene	ND	8.38		µg/Kg-dry	1	9/9/2011 10:28:00 PM
Anthracene	9.21	8.38		µg/Kg-dry	1	9/9/2011 10:28:00 PM
Benz(a)anthracene	25.1	8.38		µg/Kg-dry	1	9/9/2011 10:28:00 PM
Benzo(a)pyrene	22.6	8.38		µg/Kg-dry	1	9/9/2011 10:28:00 PM
Benzo(b)fluoranthene	31.8	8.38		µg/Kg-dry	1	9/9/2011 10:28:00 PM
Benzo(g,h,i)perylene	20.1	8.38		µg/Kg-dry	1	9/9/2011 10:28:00 PM
Benzo(k)fluoranthene	ND	8.38		µg/Kg-dry	1	9/9/2011 10:28:00 PM
Chrysene	46.1	8.38		µg/Kg-dry	1	9/9/2011 10:28:00 PM
Dibenz(a,h)anthracene	ND	8.38		µg/Kg-dry	1	9/9/2011 10:28:00 PM
Fluoranthene	39.4	8.38		µg/Kg-dry	1	9/9/2011 10:28:00 PM
Fluorene	ND	8.38		µg/Kg-dry	1	9/9/2011 10:28:00 PM
Indeno(1,2,3-cd)pyrene	14.2	8.38		µg/Kg-dry	1	9/9/2011 10:28:00 PM
Naphthalene	ND	8.38		µg/Kg-dry	1	9/9/2011 10:28:00 PM
Phenanthrene	34.3	8.38		µg/Kg-dry	1	9/9/2011 10:28:00 PM
Pyrene	58.6	8.38		µg/Kg-dry	1	9/9/2011 10:28:00 PM
Surr: 2-Fluorobiphenyl	56.8	42.6-128		%REC	1	9/9/2011 10:28:00 PM
Surr: Nitrobenzene-d5	57.1	21.7-155		%REC	1	9/9/2011 10:28:00 PM
Surr: p-Terphenyl-d14	63.9	44.9-155		%REC	1	9/9/2011 10:28:00 PM
PCB'S IN SOIL						
SW8082				Analyst: jrp		
Aroclor 1016	ND	0.418		µg/Kg-dry	1	9/12/2011
Aroclor 1221	ND	0.418		µg/Kg-dry	1	9/12/2011
Aroclor 1232	ND	0.418		µg/Kg-dry	1	9/12/2011
Aroclor 1242	ND	0.418		µg/Kg-dry	1	9/12/2011
Aroclor 1248	ND	0.418		µg/Kg-dry	1	9/12/2011
Aroclor 1254	ND	0.418		µg/Kg-dry	1	9/12/2011
Aroclor 1260	ND	0.418		µg/Kg-dry	1	9/12/2011
Aroclor 1262	ND	0.418		µg/Kg-dry	1	9/12/2011
Aroclor 1268	ND	0.418		µg/Kg-dry	1	9/12/2011
Surr: Decachlorobiphenyl	111	56.5-130		%REC	1	9/12/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109045
Project: Port of Camas / 0229.04.03
Lab ID: 1109045-03

Client Sample ID: TP-3-3
Collection Date: 9/6/2011 10:45:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						
			NWHCID		Analyst: jrp	
Gasoline	ND	28.0		mg/Kg-dry	1	9/8/2011
Mineral Spirits	ND	28.0		mg/Kg-dry	1	9/8/2011
Kerosene	ND	70.0		mg/Kg-dry	1	9/8/2011
Diesel	ND	70.0		mg/Kg-dry	1	9/8/2011
Lube Oil	ND	140		mg/Kg-dry	1	9/8/2011
Surr: BFB	126	50-150		%REC	1	9/8/2011
Surr: o-Terphenyl	117	50-150		%REC	1	9/8/2011
LOW LEVEL PAH BY GC/MS						
			8270SIM		Analyst: jrp	
1-Methylnaphthalene	ND	9.34		µg/Kg-dry	1	9/9/2011 8:14:00 PM
2-Methylnaphthalene	ND	9.34		µg/Kg-dry	1	9/9/2011 8:14:00 PM
Acenaphthene	ND	9.34		µg/Kg-dry	1	9/9/2011 8:14:00 PM
Acenaphthylene	ND	9.34		µg/Kg-dry	1	9/9/2011 8:14:00 PM
Anthracene	ND	9.34		µg/Kg-dry	1	9/9/2011 8:14:00 PM
Benz(a)anthracene	ND	9.34		µg/Kg-dry	1	9/9/2011 8:14:00 PM
Benzo(a)pyrene	15.9	9.34		µg/Kg-dry	1	9/9/2011 8:14:00 PM
Benzo(b)fluoranthene	17.7	9.34		µg/Kg-dry	1	9/9/2011 8:14:00 PM
Benzo(g,h,i)perylene	10.3	9.34		µg/Kg-dry	1	9/9/2011 8:14:00 PM
Benzo(k)fluoranthene	ND	9.34		µg/Kg-dry	1	9/9/2011 8:14:00 PM
Chrysene	29.9	9.34		µg/Kg-dry	1	9/9/2011 8:14:00 PM
Dibenz(a,h)anthracene	ND	9.34		µg/Kg-dry	1	9/9/2011 8:14:00 PM
Fluoranthene	ND	9.34		µg/Kg-dry	1	9/9/2011 8:14:00 PM
Fluorene	ND	9.34		µg/Kg-dry	1	9/9/2011 8:14:00 PM
Indeno(1,2,3-cd)pyrene	ND	9.34		µg/Kg-dry	1	9/9/2011 8:14:00 PM
Naphthalene	ND	9.34		µg/Kg-dry	1	9/9/2011 8:14:00 PM
Phenanthrene	ND	9.34		µg/Kg-dry	1	9/9/2011 8:14:00 PM
Pyrene	ND	9.34		µg/Kg-dry	1	9/9/2011 8:14:00 PM
Surr: 2-Fluorobiphenyl	41.4	42.6-128	S	%REC	1	9/9/2011 8:14:00 PM
Surr: Nitrobenzene-d5	49.1	21.7-155		%REC	1	9/9/2011 8:14:00 PM
Surr: p-Terphenyl-d14	77.4	44.9-155		%REC	1	9/9/2011 8:14:00 PM
PCB'S IN SOIL						
			SW8082		Analyst: jrp	
Aroclor 1016	ND	0.466		µg/Kg-dry	1	9/12/2011
Aroclor 1221	ND	0.466		µg/Kg-dry	1	9/12/2011
Aroclor 1232	ND	0.466		µg/Kg-dry	1	9/12/2011
Aroclor 1242	ND	0.466		µg/Kg-dry	1	9/12/2011
Aroclor 1248	ND	0.466		µg/Kg-dry	1	9/12/2011
Aroclor 1254	ND	0.466		µg/Kg-dry	1	9/12/2011
Aroclor 1260	ND	0.466		µg/Kg-dry	1	9/12/2011
Aroclor 1262	ND	0.466		µg/Kg-dry	1	9/12/2011
Aroclor 1268	ND	0.466		µg/Kg-dry	1	9/12/2011
Surr: Decachlorobiphenyl	98.7	56.5-130		%REC	1	9/12/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109045
Project: Port of Camas / 0229.04.03
Lab ID: 1109045-04

Client Sample ID: TP-4-3
Collection Date: 9/6/2011 11:15:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						
NWHCID				Analyst: jrp		
Gasoline	ND	24.2		mg/Kg-dry	1	9/8/2011
Mineral Spirits	ND	24.2		mg/Kg-dry	1	9/8/2011
Kerosene	ND	60.5		mg/Kg-dry	1	9/8/2011
Diesel	ND	60.5		mg/Kg-dry	1	9/8/2011
Lube Oil	ND	121		mg/Kg-dry	1	9/8/2011
Surr: BFB	153	50-150	S	%REC	1	9/8/2011
Surr: o-Terphenyl	136	50-150		%REC	1	9/8/2011
LOW LEVEL PAH BY GC/MS						
8270SIM				Analyst: jrp		
1-Methylnaphthalene	ND	8.07		µg/Kg-dry	1	9/9/2011 8:41:00 PM
2-Methylnaphthalene	ND	8.07		µg/Kg-dry	1	9/9/2011 8:41:00 PM
Acenaphthene	ND	8.07		µg/Kg-dry	1	9/9/2011 8:41:00 PM
Acenaphthylene	ND	8.07		µg/Kg-dry	1	9/9/2011 8:41:00 PM
Anthracene	ND	8.07		µg/Kg-dry	1	9/9/2011 8:41:00 PM
Benz(a)anthracene	ND	8.07		µg/Kg-dry	1	9/9/2011 8:41:00 PM
Benzo(a)pyrene	ND	8.07		µg/Kg-dry	1	9/9/2011 8:41:00 PM
Benzo(b)fluoranthene	10.5	8.07		µg/Kg-dry	1	9/9/2011 8:41:00 PM
Benzo(g,h,i)perylene	8.87	8.07		µg/Kg-dry	1	9/9/2011 8:41:00 PM
Benzo(k)fluoranthene	ND	8.07		µg/Kg-dry	1	9/9/2011 8:41:00 PM
Chrysene	9.67	8.07		µg/Kg-dry	1	9/9/2011 8:41:00 PM
Dibenz(a,h)anthracene	ND	8.07		µg/Kg-dry	1	9/9/2011 8:41:00 PM
Fluoranthene	11.3	8.07		µg/Kg-dry	1	9/9/2011 8:41:00 PM
Fluorene	ND	8.07		µg/Kg-dry	1	9/9/2011 8:41:00 PM
Indeno(1,2,3-cd)pyrene	ND	8.07		µg/Kg-dry	1	9/9/2011 8:41:00 PM
Naphthalene	ND	8.07		µg/Kg-dry	1	9/9/2011 8:41:00 PM
Phenanthrene	ND	8.07		µg/Kg-dry	1	9/9/2011 8:41:00 PM
Pyrene	12.9	8.07		µg/Kg-dry	1	9/9/2011 8:41:00 PM
Surr: 2-Fluorobiphenyl	48.8	42.6-128		%REC	1	9/9/2011 8:41:00 PM
Surr: Nitrobenzene-d5	49.1	21.7-155		%REC	1	9/9/2011 8:41:00 PM
Surr: p-Terphenyl-d14	75.7	44.9-155		%REC	1	9/9/2011 8:41:00 PM
PCB'S IN SOIL						
SW8082				Analyst: jrp		
Aroclor 1016	ND	0.403		µg/Kg-dry	1	9/12/2011
Aroclor 1221	ND	0.403		µg/Kg-dry	1	9/12/2011
Aroclor 1232	ND	0.403		µg/Kg-dry	1	9/12/2011
Aroclor 1242	ND	0.403		µg/Kg-dry	1	9/12/2011
Aroclor 1248	ND	0.403		µg/Kg-dry	1	9/12/2011
Aroclor 1254	ND	0.403		µg/Kg-dry	1	9/12/2011
Aroclor 1260	ND	0.403		µg/Kg-dry	1	9/12/2011
Aroclor 1262	ND	0.403		µg/Kg-dry	1	9/12/2011
Aroclor 1268	ND	0.403		µg/Kg-dry	1	9/12/2011
Surr: Decachlorobiphenyl	108	56.5-130		%REC	1	9/12/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109045
Project: Port of Camas / 0229.04.03
Lab ID: 1109045-05

Client Sample ID: TP-5-8
Collection Date: 9/6/2011 1:15:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						
			NWHCID		Analyst: jrj	
Gasoline	ND	43.5		mg/Kg-dry	1	9/8/2011
Mineral Spirits	ND	43.5		mg/Kg-dry	1	9/8/2011
Kerosene	ND	109		mg/Kg-dry	1	9/8/2011
Diesel	ND	109		mg/Kg-dry	1	9/8/2011
Lube Oil	Lube Oil	217		mg/Kg-dry	1	9/8/2011
Surr: BFB	126	50-150		%REC	1	9/8/2011
Surr: o-Terphenyl	114	50-150		%REC	1	9/8/2011
NWTPH-DX						
			NWTPH-DX		Analyst: jrj	
Diesel	185	32.6	A1	mg/Kg-dry	1	9/13/2011
Lube Oil	662	109	A2	mg/Kg-dry	1	9/13/2011
Surr: o-Terphenyl	94.0	50-150		%REC	1	9/13/2011
TOTAL METALS BY ICP						
			E6010		Analyst: zau	
Arsenic	ND	3.88		mg/Kg-dry	1	9/8/2011 1:57:26 PM
Barium	186	1.94		mg/Kg-dry	1	9/8/2011 1:57:26 PM
Cadmium	0.291	0.194		mg/Kg-dry	1	9/8/2011 1:57:26 PM
Chromium	21.2	0.970		mg/Kg-dry	1	9/8/2011 1:57:26 PM
Lead	46.8	3.88		mg/Kg-dry	1	9/8/2011 1:57:26 PM
Selenium	ND	3.88		mg/Kg-dry	1	9/8/2011 1:57:26 PM
Silver	ND	3.88		mg/Kg-dry	1	9/8/2011 1:57:26 PM
MERCURY, TOTAL						
			SW7471		Analyst: eh	
Mercury	0.0963	0.0227		mg/Kg-dry	1	9/8/2011
LOW LEVEL PAH BY GC/MS						
			8270SIM		Analyst: jrj	
1-Methylnaphthalene	ND	14.5		µg/Kg-dry	1	9/9/2011 9:08:00 PM
2-Methylnaphthalene	ND	14.5		µg/Kg-dry	1	9/9/2011 9:08:00 PM
Acenaphthene	ND	14.5		µg/Kg-dry	1	9/9/2011 9:08:00 PM
Acenaphthylene	ND	14.5		µg/Kg-dry	1	9/9/2011 9:08:00 PM
Anthracene	ND	14.5		µg/Kg-dry	1	9/9/2011 9:08:00 PM
Benz(a)anthracene	ND	14.5		µg/Kg-dry	1	9/9/2011 9:08:00 PM
Benzo(a)pyrene	ND	14.5		µg/Kg-dry	1	9/9/2011 9:08:00 PM
Benzo(b)fluoranthene	18.8	14.5		µg/Kg-dry	1	9/9/2011 9:08:00 PM
Benzo(g,h,i)perylene	ND	14.5		µg/Kg-dry	1	9/9/2011 9:08:00 PM
Benzo(k)fluoranthene	ND	14.5		µg/Kg-dry	1	9/9/2011 9:08:00 PM
Chrysene	21.7	14.5		µg/Kg-dry	1	9/9/2011 9:08:00 PM
Dibenz(a,h)anthracene	ND	14.5		µg/Kg-dry	1	9/9/2011 9:08:00 PM
Fluoranthene	ND	14.5		µg/Kg-dry	1	9/9/2011 9:08:00 PM
Fluorene	ND	14.5		µg/Kg-dry	1	9/9/2011 9:08:00 PM
Indeno(1,2,3-cd)pyrene	ND	14.5		µg/Kg-dry	1	9/9/2011 9:08:00 PM
Naphthalene	ND	14.5		µg/Kg-dry	1	9/9/2011 9:08:00 PM
Phenanthrene	ND	14.5		µg/Kg-dry	1	9/9/2011 9:08:00 PM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109045
Project: Port of Camas / 0229.04.03
Lab ID: 1109045-05

Client Sample ID: TP-5-8
Collection Date: 9/6/2011 1:15:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LOW LEVEL PAH BY GC/MS						
		8270SIM				Analyst: jrp
Pyrene	ND	14.5		µg/Kg-dry	1	9/9/2011 9:08:00 PM
Surr: 2-Fluorobiphenyl	57.3	42.6-128		%REC	1	9/9/2011 9:08:00 PM
Surr: Nitrobenzene-d5	62.7	21.7-155		%REC	1	9/9/2011 9:08:00 PM
Surr: p-Terphenyl-d14	65.8	44.9-155		%REC	1	9/9/2011 9:08:00 PM
PCB'S IN SOIL						
		SW8082				Analyst: jrp
Aroclor 1016	ND	0.724		µg/Kg-dry	1	9/12/2011
Aroclor 1221	ND	0.724		µg/Kg-dry	1	9/12/2011
Aroclor 1232	ND	0.724		µg/Kg-dry	1	9/12/2011
Aroclor 1242	ND	0.724		µg/Kg-dry	1	9/12/2011
Aroclor 1248	ND	0.724		µg/Kg-dry	1	9/12/2011
Aroclor 1254	ND	0.724		µg/Kg-dry	1	9/12/2011
Aroclor 1260	ND	0.724		µg/Kg-dry	1	9/12/2011
Aroclor 1262	ND	0.724		µg/Kg-dry	1	9/12/2011
Aroclor 1268	ND	0.724		µg/Kg-dry	1	9/12/2011
Surr: Decachlorobiphenyl	96.0	56.5-130		%REC	1	9/12/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi

Client Sample ID: TP-5-16.5

Lab Order: 1109045

Collection Date: 9/6/2011 1:05:00 PM

Project: Port of Camas / 0229.04.03

Lab ID: 1109045-06

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST						Analyst: ADM
Hold	Hold				1	9/22/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109045
Project: Port of Camas / 0229.04.03
Lab ID: 1109045-07

Client Sample ID: TP-6-8
Collection Date: 9/6/2011 3:00:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						
NWHCID				Analyst: jrp		
Gasoline	ND	33.1		mg/Kg-dry	1	9/8/2011
Mineral Spirits	ND	33.1		mg/Kg-dry	1	9/8/2011
Kerosene	ND	82.6		mg/Kg-dry	1	9/8/2011
Diesel	ND	82.6		mg/Kg-dry	1	9/8/2011
Lube Oil	Lube Oil	165		mg/Kg-dry	1	9/8/2011
Surr: BFB	126	50-150		%REC	1	9/8/2011
Surr: o-Terphenyl	109	50-150		%REC	1	9/8/2011
NWTPH-DX						
NWTPH-DX				Analyst: jrp		
Diesel	187	24.8	A1	mg/Kg-dry	1	9/13/2011
Lube Oil	1140	82.6	A2	mg/Kg-dry	1	9/13/2011
Surr: o-Terphenyl	98.1	50-150		%REC	1	9/13/2011
LOW LEVEL PAH BY GC/MS						
8270SIM				Analyst: jrp		
1-Methylnaphthalene	ND	11.0		µg/Kg-dry	1	9/9/2011 9:34:00 PM
2-Methylnaphthalene	ND	11.0		µg/Kg-dry	1	9/9/2011 9:34:00 PM
Acenaphthene	ND	11.0		µg/Kg-dry	1	9/9/2011 9:34:00 PM
Acenaphthylene	ND	11.0		µg/Kg-dry	1	9/9/2011 9:34:00 PM
Anthracene	ND	11.0		µg/Kg-dry	1	9/9/2011 9:34:00 PM
Benz(a)anthracene	22.0	11.0		µg/Kg-dry	1	9/9/2011 9:34:00 PM
Benzo(a)pyrene	23.1	11.0		µg/Kg-dry	1	9/9/2011 9:34:00 PM
Benzo(b)fluoranthene	34.2	11.0		µg/Kg-dry	1	9/9/2011 9:34:00 PM
Benzo(g,h,i)perylene	26.4	11.0		µg/Kg-dry	1	9/9/2011 9:34:00 PM
Benzo(k)fluoranthene	12.1	11.0		µg/Kg-dry	1	9/9/2011 9:34:00 PM
Chrysene	34.2	11.0		µg/Kg-dry	1	9/9/2011 9:34:00 PM
Dibenz(a,h)anthracene	ND	11.0		µg/Kg-dry	1	9/9/2011 9:34:00 PM
Fluoranthene	20.9	11.0		µg/Kg-dry	1	9/9/2011 9:34:00 PM
Fluorene	ND	11.0		µg/Kg-dry	1	9/9/2011 9:34:00 PM
Indeno(1,2,3-cd)pyrene	15.4	11.0		µg/Kg-dry	1	9/9/2011 9:34:00 PM
Naphthalene	ND	11.0		µg/Kg-dry	1	9/9/2011 9:34:00 PM
Phenanthrene	18.7	11.0		µg/Kg-dry	1	9/9/2011 9:34:00 PM
Pyrene	30.9	11.0		µg/Kg-dry	1	9/9/2011 9:34:00 PM
Surr: 2-Fluorobiphenyl	49.2	42.6-128		%REC	1	9/9/2011 9:34:00 PM
Surr: Nitrobenzene-d5	53.8	21.7-155		%REC	1	9/9/2011 9:34:00 PM
Surr: p-Terphenyl-d14	64.7	44.9-155		%REC	1	9/9/2011 9:34:00 PM
PCB'S IN SOIL						
SW8082				Analyst: jrp		
Aroclor 1016	ND	0.550		µg/Kg-dry	1	9/12/2011
Aroclor 1221	ND	0.550		µg/Kg-dry	1	9/12/2011
Aroclor 1232	ND	0.550		µg/Kg-dry	1	9/12/2011
Aroclor 1242	ND	0.550		µg/Kg-dry	1	9/12/2011
Aroclor 1248	ND	0.550		µg/Kg-dry	1	9/12/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109045
Project: Port of Camas / 0229.04.03
Lab ID: 1109045-07

Client Sample ID: TP-6-8
Collection Date: 9/6/2011 3:00:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082		Analyst: jrp		
Aroclor 1254	ND	0.550		µg/Kg-dry	1	9/12/2011
Aroclor 1260	ND	0.550		µg/Kg-dry	1	9/12/2011
Aroclor 1262	ND	0.550		µg/Kg-dry	1	9/12/2011
Aroclor 1268	ND	0.550		µg/Kg-dry	1	9/12/2011
Surr: Decachlorobiphenyl	79.7	56.5-130		%REC	1	9/12/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109045
Project: Port of Camas / 0229.04.03
Lab ID: 1109045-08

Client Sample ID: TP-7-2
Collection Date: 9/6/2011 3:30:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrj
Diesel	ND	16.7	A3	mg/Kg-dry	1	9/9/2011
Lube Oil	676	55.7		mg/Kg-dry	1	9/9/2011
Surr: o-Terphenyl	87.6	50-150		%REC	1	9/9/2011
TOTAL METALS BY ICP		E6010				Analyst: zau
Arsenic	6.09	2.14		mg/Kg-dry	1	9/8/2011 2:02:25 PM
Barium	106	1.07	B	mg/Kg-dry	1	9/8/2011 2:02:25 PM
Cadmium	0.214	0.107		mg/Kg-dry	1	9/8/2011 2:02:25 PM
Chromium	16.3	0.536		mg/Kg-dry	1	9/8/2011 2:02:25 PM
Lead	24.2	2.14		mg/Kg-dry	1	9/8/2011 2:02:25 PM
Selenium	ND	2.14		mg/Kg-dry	1	9/8/2011 2:02:25 PM
Silver	ND	2.14		mg/Kg-dry	1	9/8/2011 2:02:25 PM
MERCURY, TOTAL		SW7471				Analyst: eh
Mercury	0.0190	0.0103		mg/Kg-dry	1	9/8/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109045
Project: Port of Camas / 0229.04.03
Lab ID: 1109045-09

Client Sample ID: TP-8-1.5
Collection Date: 9/6/2011 3:45:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrj
Diesel	ND	18.6		mg/Kg-dry	1	9/9/2011
Lube Oil	ND	61.9		mg/Kg-dry	1	9/9/2011
Surr: o-Terphenyl	87.9	50-150		%REC	1	9/9/2011
TOTAL METALS BY ICP		E6010				Analyst: zau
Arsenic	3.51	2.21		mg/Kg-dry	1	9/8/2011 2:07:24 PM
Barium	238	1.11	B	mg/Kg-dry	1	9/8/2011 2:07:24 PM
Cadmium	ND	0.111		mg/Kg-dry	1	9/8/2011 2:07:24 PM
Chromium	18.3	0.553		mg/Kg-dry	1	9/8/2011 2:07:24 PM
Lead	5.25	2.21		mg/Kg-dry	1	9/8/2011 2:07:24 PM
Selenium	ND	2.21		mg/Kg-dry	1	9/8/2011 2:07:24 PM
Silver	ND	2.21		mg/Kg-dry	1	9/8/2011 2:07:24 PM
MERCURY, TOTAL		SW7471				Analyst: eh
Mercury	0.0314	0.0129		mg/Kg-dry	1	9/8/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109045
Project: Port of Camas / 0229.04.03
Lab ID: 1109045-10

Client Sample ID: SS-1-1.5
Collection Date: 9/6/2011 4:05:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX						Analyst: jrj
Diesel	67.2	17.3	A11K	mg/Kg-dry	1	9/9/2011
Lube Oil	304	57.8		mg/Kg-dry	1	9/9/2011
Surr: o-Terphenyl	89.5	50-150		%REC	1	9/9/2011
TOTAL METALS BY ICP						Analyst: zau
Arsenic	ND	2.06		mg/Kg-dry	1	9/8/2011 2:12:23 PM
Barium	147	1.03	B	mg/Kg-dry	1	9/8/2011 2:12:23 PM
Cadmium	ND	0.103		mg/Kg-dry	1	9/8/2011 2:12:23 PM
Chromium	20.2	0.516		mg/Kg-dry	1	9/8/2011 2:12:23 PM
Lead	26.9	2.06		mg/Kg-dry	1	9/8/2011 2:12:23 PM
Selenium	ND	2.06		mg/Kg-dry	1	9/8/2011 2:12:23 PM
Silver	2.83	2.06		mg/Kg-dry	1	9/8/2011 2:12:23 PM
MERCURY, TOTAL						Analyst: eh
Mercury	0.0281	0.0126		mg/Kg-dry	1	9/8/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109045
Project: Port of Camas / 0229.04.03
Lab ID: 1109045-11

Client Sample ID: SS-2-1.5
Collection Date: 9/6/2011 4:15:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX						Analyst: jrj
Diesel	44.1	17.3	A1	mg/Kg-dry	1	9/9/2011
Lube Oil	224	57.8	A2	mg/Kg-dry	1	9/9/2011
Surr: o-Terphenyl	84.8	50-150		%REC	1	9/9/2011
TOTAL METALS BY ICP						Analyst: zau
Arsenic	ND	2.22		mg/Kg-dry	1	9/14/2011 11:16:13 AM
Barium	139	1.11	B	mg/Kg-dry	1	9/14/2011 11:16:13 AM
Cadmium	ND	0.111		mg/Kg-dry	1	9/14/2011 11:16:13 AM
Chromium	16.9	0.556		mg/Kg-dry	1	9/14/2011 11:16:13 AM
Lead	11.4	2.22		mg/Kg-dry	1	9/14/2011 11:16:13 AM
Selenium	ND	2.22		mg/Kg-dry	1	9/14/2011 11:16:13 AM
Silver	10.6	2.22		mg/Kg-dry	1	9/14/2011 11:16:13 AM
MERCURY, TOTAL						Analyst: eh
Mercury	0.0433	0.00982		mg/Kg-dry	1	9/8/2011

CLIENT: Maul, Foster & Alongi
Work Order: 1109045
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT**TestCode: 6010_S**

Sample ID: MBLK-29359	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/7/2011	Run ID: TJA IRIS_110908A						
Client ID: ZZZZZ	Batch ID: 29359	TestNo: E6010		Analysis Date: 9/8/2011	SeqNo: 775355						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	2.00									
Barium	1.85	1.00									
Cadmium	ND	0.100									
Chromium	ND	0.500									
Lead	ND	2.00									
Selenium	ND	2.00									
Silver	ND	2.00									

Sample ID: LCS-29359	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/7/2011	Run ID: TJA IRIS_110908A						
Client ID: ZZZZZ	Batch ID: 29359	TestNo: E6010		Analysis Date: 9/8/2011	SeqNo: 775356						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	96.67	2.00	100	0	96.7	85.1	107	0	0		
Barium	50.18	1.00	50	0	100	85.7	110	0	0		B
Cadmium	4.87	0.100	5	0	97.4	87.2	109	0	0		
Chromium	26.21	0.500	25	0	105	84	113	0	0		
Lead	98.96	2.00	100	0	99	84.9	109	0	0		
Selenium	97.83	2.00	100	0	97.8	88.7	111	0	0		
Silver	47.39	2.00	50	0	94.8	79.3	109	0	0		

Sample ID: 1109038-01AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/7/2011	Run ID: TJA IRIS_110908A						
Client ID: ZZZZZ	Batch ID: 29359	TestNo: E6010		Analysis Date: 9/8/2011	SeqNo: 775359						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	85.8	1.79	89.29	0	96.1	86.1	109	0	0		
Barium	137.2	0.893	44.64	115.3	49.2	75	125	0	0		B,S,RP
Cadmium	4.366	0.0893	4.464	0	97.8	86.4	113	0	0		
Chromium	29.34	0.446	22.32	5.327	108	75	121	0	0		
Lead	93.84	1.79	89.29	9.519	94.4	84.9	109	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109045
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 1109038-01AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/7/2011	Run ID: TJA IRIS_110908A						
Client ID: ZZZZZ	Batch ID: 29359	TestNo: E6010		Analysis Date: 9/8/2011	SeqNo: 775359						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium
Silver

79.13
50.63

1.79
1.79

89.29
44.64

0
3.413

88.6
106

77.7
75

116
123

0
0

0
0

Sample ID: 1109038-01AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/7/2011	Run ID: TJA IRIS_110908A						
Client ID: ZZZZZ	Batch ID: 29359	TestNo: E6010		Analysis Date: 9/8/2011	SeqNo: 775360						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Barium
Cadmium
Chromium
Lead
Selenium
Silver

86.62
152
4.491
29.05
98.04
78.75
49.19

1.79
0.893
0.0893
0.446
1.79
1.79
1.79

89.29
44.64
4.464
22.32
89.29
89.29
44.64

0
115.3
0
5.327
9.519
0
3.413

97
82.2
101
106
99.1
88.2
103

86.1
75
86.4
75
84.9
77.7
75

109
125
113
121
109
116
123

85.8
137.2
4.366
29.34
93.84
79.13
50.63

0.942
10.2
2.82
0.979
4.37
0.486
2.90

20
20
20
20
20
20
20

B

Sample ID: 1109038-01ADUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/7/2011	Run ID: TJA IRIS_110908A						
Client ID: ZZZZZ	Batch ID: 29359	TestNo: E6010		Analysis Date: 9/8/2011	SeqNo: 775358						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Barium
Cadmium
Chromium
Lead
Selenium
Silver

ND
166.2
0.09615
7.356
8.587
ND
4.269

1.92
0.962
0.0962
0.481
1.92
1.92
1.92

0
0
0
0
0
0
0

0
0
0
0
0
0
0

0
0
0
0
0
0
0

0
0
0
0
0
0
0

0
115.3
0
5.327
9.519
0
3.413

0
36.1
0
32.0
10.3
0
22.3

20
20
20
20
20
20
20

BR
J
R
RF

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_110908A	
Client ID: ZZZZZ		Batch ID: 29359		TestNo: E6010				Analysis Date: 9/8/2011		SeqNo: 775365	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109045
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_110908A						
Client ID: ZZZZZ	Batch ID: 29359	TestNo: E6010		Analysis Date: 9/8/2011	SeqNo: 775365						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	103.5	2.00	100	0	104	90	110	0	0		
Barium	50.84	1.00	50	0	102	90	110	0	0		B
Cadmium	5.09	0.100	5	0	102	90	110	0	0		
Chromium	26.96	0.500	25	0	108	90	110	0	0		
Lead	103.6	2.00	100	0	104	90	110	0	0		
Selenium	101.6	2.00	100	0	102	90	110	0	0		
Silver	53.13	2.00	50	0	106	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_110908A						
Client ID: ZZZZZ	Batch ID: 29359	TestNo: E6010		Analysis Date: 9/8/2011	SeqNo: 775406						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	103.9	2.00	100	0	104	90	110	0	0		
Barium	51.25	1.00	50	0	103	90	110	0	0		B
Cadmium	5.06	0.100	5	0	101	90	110	0	0		
Chromium	27	0.500	25	0	108	90	110	0	0		
Lead	104.6	2.00	100	0	105	90	110	0	0		
Selenium	101.5	2.00	100	0	102	90	110	0	0		
Silver	51.82	2.00	50	0	104	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:				Run ID: TJA IRIS_110908A			
Client ID: ZZZZZ	Batch ID: 29359	TestNo: E6010	Analysis Date: 9/14/2011				SeqNo: 776577				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	94.36	2.00	100	0	94.4	90	110	0	0		
Barium	48.45	1.00	50	0	96.9	90	110	0	0		B
Cadmium	4.82	0.100	5	0	96.4	90	110	0	0		
Chromium	24.27	0.500	25	0	97.1	90	110	0	0		
Lead	95.27	2.00	100	0	95.3	90	110	0	0		
Selenium	92.85	2.00	100	0	92.8	90	110	0	0		
Silver	51.47	2.00	50	0	103	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109045
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: ICV	SampType: ICV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_110908A						
Client ID: ZZZZZ	Batch ID: 29359	TestNo: E6010		Analysis Date: 9/8/2011	SeqNo: 775354						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	102.3	2.00	100	0	102	90	110	0	0		
Barium	51.17	1.00	50	0	102	90	110	0	0		B
Cadmium	5.02	0.100	5	0	100	90	110	0	0		
Chromium	26.76	0.500	25	0	107	90	110	0	0		
Lead	104	2.00	100	0	104	90	110	0	0		
Selenium	101.1	2.00	100	0	101	90	110	0	0		
Silver	50.74	2.00	50	0	101	90	110	0	0		

Sample ID: ICV	SampType: ICV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_110908A						
Client ID: ZZZZZ	Batch ID: 29359	TestNo: E6010		Analysis Date: 9/14/2011	SeqNo: 776575						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	96.59	2.00	100	0	96.6	90	110	0	0		
Barium	50.64	1.00	50	0	101	90	110	0	0		B
Cadmium	5.01	0.100	5	0	100	90	110	0	0		
Chromium	24.6	0.500	25	0	98.4	90	110	0	0		
Lead	99.64	2.00	100	0	99.6	90	110	0	0		
Selenium	97.3	2.00	100	0	97.3	90	110	0	0		
Silver	51.57	2.00	50	0	103	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109045
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: MB-29381	SampType: MBLK	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 9/8/2011	Run ID: GCK_110912C						
Client ID: ZZZZZ	Batch ID: 29381	TestNo: SW8082		Analysis Date: 9/12/2011	SeqNo: 776338						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Aroclor 1262
Aroclor 1268

ND
ND
ND
ND
ND
ND
ND
ND
ND

0.333
0.333
0.333
0.333
0.333
0.333
0.333
0.333
0.333

6667

0

127

56.5

130

0

0

Sample ID: **LCS-29381**
Client ID: **ZZZZZ**

SampType: **LCS**
Batch ID: **29381**

TestCode: **8082LL_S**
TestNo: **SW8082**

Units: **µg/Kg**

Prep Date: **9/8/2011**
Analysis Date: **9/12/2011**

Run ID: **GCK_110912C**
SeqNo: **776339**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	60.67	0.333	66.67	0	91	44.3	137	0	0		

Sample ID: **1109045-04AMS**
Client ID: **TP-4-3**

SampType: **MS**
Batch ID: **29381**

TestCode: **8082LL_S**
TestNo: **SW8082**

Units: **µg/Kg-dry**

Prep Date: **9/8/2011**
Analysis Date: **9/12/2011**

Run ID: **GCK_110912C**
SeqNo: **776340**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	48.37	0.403	80.61	0	60	56.6	123	0	0		

Sample ID: **1109045-04AMSD**
Client ID: **TP-4-3**

SampType: **MSD**
Batch ID: **29381**

TestCode: **8082LL_S**
TestNo: **SW8082**

Units: **µg/Kg-dry**

Prep Date: **9/8/2011**
Analysis Date: **9/12/2011**

Run ID: **GCK_110912C**
SeqNo: **776341**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	50.79	0.403	80.61	0	63	56.6	123	48.37	4.88	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109045
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_110912C						
Client ID: ZZZZZ	Batch ID: 29381	TestNo: SW8082		Analysis Date: 9/12/2011	SeqNo: 776337						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	67.33	0.333	66.67	0	101	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_110912C						
Client ID: ZZZZZ	Batch ID: 29381	TestNo: SW8082		Analysis Date: 9/12/2011	SeqNo: 776348						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	72	0.333	66.67	0	108	85	115	0	0		
Aroclor 1260	66.67	0.333	66.67	0	100	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_110912C						
Client ID: ZZZZZ	Batch ID: 29381	TestNo: SW8082		Analysis Date: 9/12/2011	SeqNo: 776528						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	64	0.333	66.67	0	96	85	115	0	0		
Aroclor 1260	58	0.333	66.67	0	87	85	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109045
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: HCID_NW

Sample ID: MB-29367	SampType: MBLK	TestCode: HCID_NW	Units: mg/Kg	Prep Date: 9/8/2011	Run ID: GC-M_110908C						
Client ID: ZZZZZ	Batch ID: 29367	TestNo: NWHCID		Analysis Date: 9/8/2011	SeqNo: 775598						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	15.85	20.0									J
Mineral Spirits	ND	20.0									
Kerosene	ND	50.0									
Diesel	20.43	50.0									J
Lube Oil	ND	100									
Surr: BFB	99.02	0	100	0	99	50	150	0	0		
Surr: o-Terphenyl	100.2	0	100	0	100	50	150	0	0		

Sample ID: 1109045-01ADUP		SampType: DUP		TestCode: HCID_NW		Units: mg/Kg-dry		Prep Date: 9/8/2011		Run ID: GC-M_110908C			
Client ID: TP-1-3		Batch ID: 29367		TestNo: NWHCID				Analysis Date: 9/8/2011		SeqNo: 775605			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	21.89	27.5	0	0	0	0	0	20.83	0	20	J
Mineral Spirits	ND	27.5	0	0	0	0	0	0	0	20	
Kerosene	ND	68.9	0	0	0	0	0	0	0	20	
Diesel	150.2	68.9	0	0	0	0	0	67.6	75.8	20	
Lube Oil	1173	138	0	0	0	0	0	792.9	38.7	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109045
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: MB-29370	SampType: MBLK	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 9/8/2011	Run ID: CVAA_110908A						
Client ID: ZZZZZ	Batch ID: 29370	TestNo: SW7471		Analysis Date: 9/8/2011	SeqNo: 775304						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.0014	0.0167									J

Sample ID: LCS-29370	SampType: LCS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 9/8/2011	Run ID: CVAA_110908A						
Client ID: ZZZZZ	Batch ID: 29370	TestNo: SW7471		Analysis Date: 9/8/2011	SeqNo: 775303						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2579	0.0167	0.25	0	103	88.2	113	0	0		

Sample ID: 1109045-08AMS	SampType: MS	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 9/8/2011	Run ID: CVAA_110908A						
Client ID: TP-7-2	Batch ID: 29370	TestNo: SW7471		Analysis Date: 9/8/2011	SeqNo: 775297						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.1622	0.00997	0.1493	0.01904	95.9	78.1	125	0	0		

Sample ID: 1109045-08AMSD	SampType: MSD	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 9/8/2011	Run ID: CVAA_110908A						
Client ID: TP-7-2	Batch ID: 29370	TestNo: SW7471		Analysis Date: 9/8/2011	SeqNo: 775298						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.1671	0.0103	0.1548	0.01904	95.6	78.1	125	0.1622	2.96	20	

Sample ID: 1109045-08ADUP	SampType: DUP	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 9/8/2011	Run ID: CVAA_110908A						
Client ID: TP-7-2	Batch ID: 29370	TestNo: SW7471		Analysis Date: 9/8/2011	SeqNo: 775296						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.01645	0.0107	0	0	0	0	0	0.01904	14.6	20	

Sample ID: CCV-29370	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_110908A						
Client ID: ZZZZZ	Batch ID: 29370	TestNo: SW7471		Analysis Date: 9/8/2011	SeqNo: 775302						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109045
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: CCV-29370	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_110908A						
Client ID: ZZZZZ	Batch ID: 29370	TestNo: SW7471		Analysis Date: 9/8/2011	SeqNo: 775302						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2515	0.0167	0.25	0	101	90	110	0	0		

Sample ID: CCV-29370	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_110908A						
Client ID: ZZZZZ	Batch ID: 29370	TestNo: SW7471		Analysis Date: 9/8/2011	SeqNo: 775305						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2506	0.0167	0.25	0	100	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109045
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: MB-29364	SampType: MBLK	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 9/7/2011	Run ID: GC-M_110908A						
Client ID: ZZZZZ	Batch ID: 29364	TestNo: NWTPH-Dx		Analysis Date: 9/8/2011	SeqNo: 775319						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	35.35	0	33.33	0	106	50	150	0	0		

Sample ID: MB-29407	SampType: MBLK	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: GC-M_110913A						
Client ID: ZZZZZ	Batch ID: 29407	TestNo: NWTPH-Dx		Analysis Date: 9/13/2011	SeqNo: 776399						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	32.22	0	33.33	0	96.7	50	150	0	0		

Sample ID: LCS-29364	SampType: LCS	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 9/7/2011	Run ID: GC-M_110908A						
Client ID: ZZZZZ	Batch ID: 29364	TestNo: NWTPH-Dx		Analysis Date: 9/8/2011	SeqNo: 775320						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	187.2	15.0	166.6	0	112	76.3	125	0	0		
Lube Oil	203.2	50.0	166.6	0	122	69.9	127	0	0		

Sample ID: LCS-29407	SampType: LCS	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: GC-M_110913A						
Client ID: ZZZZZ	Batch ID: 29407	TestNo: NWTPH-Dx		Analysis Date: 9/13/2011	SeqNo: 776400						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	181.6	15.0	166.6	0	109	76.3	125	0	0		
Lube Oil	188.8	50.0	166.6	0	113	69.9	127	0	0		

Sample ID: 1109038-01BDUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 9/7/2011	Run ID: GC-M_110908A						
Client ID: ZZZZZ	Batch ID: 29364	TestNo: NWTPH-Dx		Analysis Date: 9/8/2011	SeqNo: 775322						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109045
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: 1109038-01BDUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 9/7/2011	Run ID: GC-M_110908A						
Client ID: ZZZZZ	Batch ID: 29364	TestNo: NWTPH-Dx		Analysis Date: 9/8/2011	SeqNo: 775322						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	16.2	0	0	0	0	0	0	0	20	A3
Lube Oil	136.3	54.0	0	0	0	0	0	131.6	3.54	20	

Sample ID: 1109056-01ADUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 9/12/2011	Run ID: GC-M_110913A						
Client ID: ZZZZZ	Batch ID: 29407	TestNo: NWTPH-Dx		Analysis Date: 9/13/2011	SeqNo: 776402						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	2022	16.4	0	0	0	0	0	1969	2.66	20	
Lube Oil	71.52	54.6	0	0	0	0	0	79.15	10.1	20	M

Sample ID: 1109045-07ADUP		SampType: DUP		TestCode: NWTPHDX_S		Units: mg/Kg-dry		Prep Date: 9/12/2011		Run ID: GC-M_110913A			
Client ID: TP-6-8		Batch ID: 29407		TestNo: NWTPH-Dx				Analysis Date: 9/13/2011		SeqNo: 776483			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	117.5	24.8	0	0	0	0	0	186.5	45.4	20	R,Mi,A1
Lube Oil	764.2	82.6	0	0	0	0	0	1139	39.4	20	R,Mi,A2

Sample ID: CCB		SampType: CCB		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_110908A			
Client ID: ZZZZZ		Batch ID: 29364		TestNo: NWTPH-Dx				Analysis Date: 9/9/2011		SeqNo: 776004			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0	0	0	0	0	0	0	0		
Lube Oil	4.33	50.0	0	0	0	0	0	0	0		
Surr: o-Terphenyl	33.25	0	33.33	0	99.8	50	150	0	0		

Sample ID: CCB		SampType: CCB		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date: 9/12/2011		Run ID: GC-M_110913A	
Client ID: ZZZZZ		Batch ID: 29407		TestNo: NWTPH-Dx				Analysis Date: 9/14/2011		SeqNo: 776705	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0	0	0	0	0	0	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109045
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: CCB		SampType: CCB		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date: 9/12/2011		Run ID: GC-M_110913A	
Client ID: ZZZZZ		Batch ID: 29407		TestNo: NWTPH-Dx				Analysis Date: 9/14/2011		SeqNo: 776705	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lube Oil	4.553	50.0	0	0	0	0	0	0	0		
Surr: o-Terphenyl	32.69	0	33.33	0	98.1	50	150	0	0		

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_110908A	
Client ID: ZZZZZ		Batch ID: 29364		TestNo: NWTPH-Dx				Analysis Date: 9/8/2011		SeqNo: 775318	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1011	15.0	1009	0	100	85	115	0	0		
Lube Oil	563.5	50.0	524.9	0	107	85	115	0	0		

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_110908A	
Client ID: ZZZZZ		Batch ID: 29364		TestNo: NWTPH-Dx				Analysis Date: 9/8/2011		SeqNo: 775384	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1321	15.0	1346	0	98.2	85	115	0	0		
Lube Oil	714	50.0	699.9	0	102	85	115	0	0		

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_110908A	
Client ID: ZZZZZ		Batch ID: 29364		TestNo: NWTPH-Dx				Analysis Date: 9/9/2011		SeqNo: 776003	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1339	15.0	1346	0	99.5	85	115	0	0		
Lube Oil	715.5	50.0	699.9	0	102	85	115	0	0		

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_110908A	
Client ID: ZZZZZ		Batch ID: 29364		TestNo: NWTPH-Dx				Analysis Date: 9/9/2011		SeqNo: 776009	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1008	15.0	1009	0	99.9	85	115	0	0		
Lube Oil	535.9	50.0	524.9	0	102	85	115	0	0		

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CLIENT: Maul, Foster & Alongi
Work Order: 1109045
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_110913A			
Client ID: ZZZZZ		Batch ID: 29407		TestNo: NWTPH-Dx				Analysis Date: 9/13/2011		SeqNo: 776398			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1052	15.0	1009	0	104	85	115	0	0	
Lube Oil	586.3	50.0	524.9	0	112	85	115	0	0	

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_110913A	
Client ID: ZZZZZ		Batch ID: 29407		TestNo: NWTPH-Dx				Analysis Date: 9/13/2011		SeqNo: 776412	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1368	15.0	1346	0	102	85	115	0	0	
Lube Oil	740.4	50.0	699.9	0	106	85	115	0	0	

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_110913A	
Client ID: ZZZZZ		Batch ID: 29407		TestNo: NWTPH-Dx				Analysis Date: 9/13/2011		SeqNo: 776492	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1005	15.0	1009	0	99.6	85	115	0	0	
Lube Oil	544.2	50.0	524.9	0	104	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_110913A						
Client ID: ZZZZZ	Batch ID: 29407	TestNo: NWTPH-Dx		Analysis Date: 9/14/2011	SeqNo: 776703						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1046	15.0	1009	0	104	85	115	0	0	
Lube Oil	548.1	50.0	524.9	0	104	85	115	0	0	

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_110913A	
Client ID: ZZZZZ		Batch ID: 29407		TestNo: NWTPH-Dx				Analysis Date: 9/14/2011		SeqNo: 776707	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1054	15.0	1009	0	104	85	115	0	0	
Lube Oil	556.7	50.0	524.9	0	106	85	115	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109045
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: MB-29365	SampType: MBLK	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 9/7/2011	Run ID: 5975Q_110908A						
Client ID: ZZZZZ	Batch ID: 29365	TestNo: 8270SIM		Analysis Date: 9/8/2011	SeqNo: 775327						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	ND	6.67									
2-Methylnaphthalene	ND	6.67									
Acenaphthene	ND	6.67									
Acenaphthylene	ND	6.67									
Anthracene	ND	6.67									
Benz(a)anthracene	ND	6.67									
Benzo(a)pyrene	0.6667	6.67									J
Benzo(b)fluoranthene	ND	6.67									
Benzo(g,h,i)perylene	ND	6.67									
Benzo(k)fluoranthene	0.6667	6.67									J
Chrysene	ND	6.67									
Dibenz(a,h)anthracene	0.6667	6.67									J
Fluoranthene	0.6667	6.67									J
Fluorene	ND	6.67									
Indeno(1,2,3-cd)pyrene	ND	6.67									
Naphthalene	1.333	6.67									J
Phenanthrene	0.6667	6.67									J
Pyrene	ND	6.67									
Surr: 2-Fluorobiphenyl	3013	0	6667	0	45.2	42.6	128	0	0		
Surr: Nitrobenzene-d5	3311	0	6667	0	49.7	21.7	155	0	0		
Surr: p-Terphenyl-d14	3794	0	6667	0	56.9	44.9	155	0	0		

Sample ID: LCS-29365	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 9/7/2011	Run ID: 5975Q_110908A						
Client ID: ZZZZZ	Batch ID: 29365	TestNo: 8270SIM		Analysis Date: 9/9/2011	SeqNo: 775767						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	240.7	6.67	333.3	0	72.2	29.1	109	0	0		
2-Methylnaphthalene	260	6.67	333.3	0	78	29.1	109	0	0		
Acenaphthene	231.3	6.67	333.3	0	69.4	39.6	107	0	0		
Benzo(g,h,i)perylene	225.3	6.67	333.3	0	67.6	49.7	135	0	0		
Chrysene	277.3	6.67	333.3	0	83.2	57.1	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109045
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: LCS-29365	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 9/7/2011	Run ID: 5975Q_110908A						
Client ID: ZZZZZ	Batch ID: 29365	TestNo: 8270SIM		Analysis Date: 9/9/2011	SeqNo: 775767						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	193.3	6.67	333.3	1.333	57.6	29.1	109	0	0		
Phenanthrene	238	6.67	333.3	0.6667	71.2	48.4	115	0	0		
Pyrene	292.7	6.67	333.3	0	87.8	47.2	134	0	0		

Sample ID: 1109038-02AMS	SampType: MS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 9/7/2011	Run ID: 5975Q_110908A						
Client ID: ZZZZZ	Batch ID: 29365	TestNo: 8270SIM		Analysis Date: 9/8/2011	SeqNo: 775391						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	118.7	6.67	333.3	0	35.6	27.7	108	0	0		
2-Methylnaphthalene	147.3	6.67	333.3	0	44.2	27.7	108	0	0		
Acenaphthene	123.3	6.67	333.3	0	37	33.7	111	0	0		
Benzo(g,h,i)perylene	154.7	6.67	333.3	2.667	45.6	15	128	0	0		
Chrysene	158.7	6.67	333.3	6	45.8	37.5	125	0	0		
Naphthalene	104	6.67	333.3	2	30.6	27.7	108	0	0		
Phenanthrene	138.7	6.67	333.3	2	41	20.2	139	0	0		
Pyrene	176	6.67	333.3	3.333	51.8	26.8	142	0	0		

Sample ID: 1109038-02AMSD	SampType: MSD	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 9/7/2011	Run ID: 5975Q_110908A						
Client ID: ZZZZZ	Batch ID: 29365	TestNo: 8270SIM		Analysis Date: 9/8/2011	SeqNo: 775392						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	116.7	6.67	333.3	0	35	27.7	108	118.7	1.70	20	
2-Methylnaphthalene	148.7	6.67	333.3	0	44.6	27.7	108	147.3	0.901	20	
Acenaphthene	124	6.67	333.3	0	37.2	33.7	111	123.3	0.539	20	
Benzo(g,h,i)perylene	146.7	6.67	333.3	2.667	43.2	15	128	154.7	5.31	20	
Chrysene	152	6.67	333.3	6	43.8	37.5	125	158.7	4.29	20	
Naphthalene	105.3	6.67	333.3	2	31	27.7	108	104	1.27	20	
Phenanthrene	134	6.67	333.3	2	39.6	20.2	139	138.7	3.42	20	
Pyrene	172	6.67	333.3	3.333	50.6	26.8	142	176	2.30	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109045
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCB-29365	SampType: CCB	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 9/7/2011	Run ID: 5975Q_110908A						
Client ID: ZZZZZ	Batch ID: 29365	TestNo: 8270SIM		Analysis Date: 9/9/2011	SeqNo: 775756						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.6667	6.67	0	0	0	0	0	0	0		
2-Methylnaphthalene	0.6667	6.67	0	0	0	0	0	0	0		
Acenaphthene	0.6667	6.67	0	0	0	0	0	0	0		
Acenaphthylene	ND	6.67	0	0	0	0	0	0	0		
Anthracene	ND	6.67	0	0	0	0	0	0	0		
Benz(a)anthracene	2	6.67	0	0	0	0	0	0	0		
Benzo(a)pyrene	2	6.67	0	0	0	0	0	0	0		
Benzo(b)fluoranthene	2	6.67	0	0	0	0	0	0	0		
Benzo(g,h,i)perylene	2	6.67	0	0	0	0	0	0	0		
Benzo(k)fluoranthene	2	6.67	0	0	0	0	0	0	0		
Chrysene	2	6.67	0	0	0	0	0	0	0		
Dibenz(a,h)anthracene	1.333	6.67	0	0	0	0	0	0	0		
Fluoranthene	0.6667	6.67	0	0	0	0	0	0	0		
Fluorene	ND	6.67	0	0	0	0	0	0	0		
Indeno(1,2,3-cd)pyrene	1.333	6.67	0	0	0	0	0	0	0		
Naphthalene	1.333	6.67	0	0	0	0	0	0	0		
Phenanthrene	0.6667	6.67	0	0	0	0	0	0	0		
Pyrene	0.6667	6.67	0	0	0	0	0	0	0		
Surr: 2-Fluorobiphenyl	2923	0	6667	0	43.8	42.6	128	0	0		
Surr: Nitrobenzene-d5	3169	0	6667	0	47.5	21.7	155	0	0		
Surr: p-Terphenyl-d14	3668	0	6667	0	55	44.9	155	0	0		

Sample ID: CCV	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5975Q_110908A						
Client ID: ZZZZZ	Batch ID: 29365	TestNo: 8270SIM		Analysis Date: 9/8/2011	SeqNo: 775326						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	64.67	6.67	66.67	0	97	70	130	0	0		
Acenaphthylene	62.67	6.67	66.67	0	94	70	130	0	0		
Anthracene	61.33	6.67	66.67	0	92	70	130	0	0		
Benz(a)anthracene	63.33	6.67	66.67	0	95	70	130	0	0		
Benzo(a)pyrene	70	6.67	66.67	0	105	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109045
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCV	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5975Q_110908A						
Client ID: ZZZZZ	Batch ID: 29365	TestNo: 8270SIM		Analysis Date: 9/8/2011	SeqNo: 775326						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzo(b)fluoranthene	75.33	6.67	66.67	0	113	70	130	0	0		
Benzo(g,h,i)perylene	67.33	6.67	66.67	0	101	70	130	0	0		
Benzo(k)fluoranthene	69.33	6.67	66.67	0	104	70	130	0	0		
Chrysene	70	6.67	66.67	0	105	70	130	0	0		
Dibenz(a,h)anthracene	67.33	6.67	66.67	0	101	70	130	0	0		
Fluoranthene	61.33	6.67	66.67	0	92	70	130	0	0		
Fluorene	58.67	6.67	66.67	0	88	70	130	0	0		
Indeno(1,2,3-cd)pyrene	66.67	6.67	66.67	0	100	70	130	0	0		
Naphthalene	70.67	6.67	66.67	0	106	70	130	0	0		
Phenanthrene	64.67	6.67	66.67	0	97	70	130	0	0		
Pyrene	78.67	6.67	66.67	0	118	70	130	0	0		

Sample ID: CCV		SampType: CCV		TestCode: PAHLL_S		Units: µg/Kg		Prep Date:		Run ID: 5975Q_110908A			
Client ID: ZZZZZ		Batch ID: 29365		TestNo: 8270SIM				Analysis Date: 9/9/2011		SeqNo: 775755			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	73.33	6.67	66.67	0	110	70	130	0	0		
2-Methylnaphthalene	78.67	6.67	66.67	0	118	70	130	0	0		
Acenaphthene	64.67	6.67	66.67	0	97	70	130	0	0		
Acenaphthylene	62.67	6.67	66.67	0	94	70	130	0	0		
Anthracene	56	6.67	66.67	0	84	70	130	0	0		
Benz(a)anthracene	66	6.67	66.67	0	99	70	130	0	0		
Benzo(a)pyrene	64.67	6.67	66.67	0	97	70	130	0	0		
Benzo(b)fluoranthene	70	6.67	66.67	0	105	70	130	0	0		
Benzo(g,h,i)perylene	60.67	6.67	66.67	0	91	70	130	0	0		
Benzo(k)fluoranthene	68.67	6.67	66.67	0	103	70	130	0	0		
Chrysene	72	6.67	66.67	0	108	70	130	0	0		
Dibenz(a,h)anthracene	63.33	6.67	66.67	0	95	70	130	0	0		
Fluoranthene	57.33	6.67	66.67	0	86	70	130	0	0		
Fluorene	62	6.67	66.67	0	93	70	130	0	0		
Indeno(1,2,3-cd)pyrene	68	6.67	66.67	0	102	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109045
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCV	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5975Q_110908A						
Client ID: ZZZZZ	Batch ID: 29365	TestNo: 8270SIM		Analysis Date: 9/9/2011	SeqNo: 775755						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	68.67	6.67	66.67	0	103	70	130	0	0		
Phenanthrene	64	6.67	66.67	0	96	70	130	0	0		
Pyrene	80	6.67	66.67	0	120	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

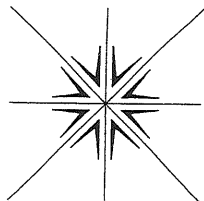
KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result great than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.

CHAIN OF CUSTODY RECORD

Page 1 of



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Contact Person/Project Manager Christina Johnson

Company MFA

Address 7223 NE Hazel Dell Ave

Vancouver, WA

Phone 360-433-0249 Fax

Project No. 0229.0403 Project Name Port of Canas

Project Site Location OR WA X Other

Invoice To P.O. No.

Collected By: [Signature]

Signature [Signature]

Printed Christina Johnson

Signature

Printed

Turn Around Time

☒ Normal 5-7 Business Days

☐ Rush

Specify

Rush Analyses Must Be Scheduled With The Lab In Advance

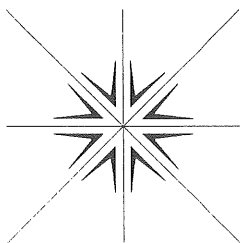
				No. of Containers	Analyses								For Laboratory Use	
Date	Time	Sample I.D.	Matrix		NWTPH-HCUD	NWTPH-6X	NWTPH-DX	PCRA-8 (WA)	PCBS (8802)	PAHs (8220 < SIM)	Lab Job No.	Shipped Via	Air Bill No.	
9/6/11	4:55	TP-1-3	S	6	X		X	X	X	X	1109045	Specialty		
	9:45	TP-2-3.5	S	5	X		X	X	X	X				
	10:45	TP-3-3	S	6	X			X	X	X				
	11:15	TP-4-3	S	6	X			X	X	X				
	13:15	TP-5-8	S	6	X		X	X	X	X				
	13:05	TP-5-16.5	S	6			X							
	15:00	TP-6-8	S	6	X		X	X	X	X				
	15:30	TP-7-2	S	1			X	X						
	15:45	TP-8-1.5	S	1			X	X						
	16:05	SS-1-1.5	S	1			X	X						
	16:15	SS-2-1.5	S	1			X	X						
Relinquished By: <u>[Signature]</u> Company: <u>MFA</u> Date: <u>9/6/11</u> Time: <u>15:30</u> Received By: <u>[Signature]</u> Company: <u>Specialty</u> Relinquished By: <u>[Signature]</u> Company: <u>Specialty</u> Date: <u>9/7/11</u> Time: <u>14:40</u>														
Received For Lab By: <u>Nick Pappas</u> Date: <u>9/7/11</u> Time: <u>14:10</u>														

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt.
Samples held beyond 60 days subject to storage fee(s)

Copies: White-Original

Yellow-Project File

Pink-Customer Copy



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
(503) 607-1331
Fax (503) 607-1336

September 19, 2011

Christina Johnson
Maul, Foster & Alongi
7223 NE Hazel Dell Avenue
Suite B
Vancouver, WA 98665

TEL: (360) 694-2691

FAX: (360) 906-1958

RE: Port of Camas / 0229.04.01

Dear Christina Johnson:

Order No.: 1109059

Specialty Analytical received 2 samples on 9/8/2011 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,


Cindy Hillyard
Project Manager


Technical Review

Specialty Analytical

Date: 19-Sep-11

CLIENT: Maul, Foster & Alongi
Project: Port of Camas / 0229.04.01

Lab Order: 1109059

Lab ID: 1109059-01

Collection Date: 9/7/2011 9:00:00 AM

Client Sample ID: MW-6

Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrp
Diesel	ND	0.0762		mg/L	1	9/9/2011
Lube Oil	ND	0.190		mg/L	1	9/9/2011
Surr: o-Terphenyl	75.0	50-150		%REC	1	9/9/2011
NWTPH-GX		NWTPH-GX				Analyst: jrp
Gasoline	ND	100		µg/L	1	9/9/2011
Surr: 4-Bromofluorobenzene	85.5	50-150		%REC	1	9/9/2011

Lab ID: 1109059-02

Collection Date: 9/7/2011 10:30:00 AM

Client Sample ID: MW-5

Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrp
Diesel	ND	0.0762		mg/L	1	9/9/2011
Lube Oil	ND	0.190		mg/L	1	9/9/2011
Surr: o-Terphenyl	77.6	50-150		%REC	1	9/9/2011
NWTPH-GX		NWTPH-GX				Analyst: jrp
Gasoline	ND	100		µg/L	1	9/9/2011
Surr: 4-Bromofluorobenzene	106	50-150		%REC	1	9/9/2011

CLIENT: Maul, Foster & Alongi
Work Order: 1109059
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT**TestCode:** NWTPHDXLL_W

Sample ID: MB-29372	SampType: MBLK	TestCode: NWTPHDXLL	Units: mg/L	Prep Date: 9/8/2011	Run ID: GC-M_110909B						
Client ID: ZZZZZ	Batch ID: 29372	TestNo: NWTPH-Dx	Analysis Date: 9/9/2011	SeqNo: 775989							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	0.0800									
Lube Oil	ND	0.200									
Surr: o-Terphenyl	0.1723	0	0.2	0	86.2	50	150	0	0		

Sample ID: LCS-29372	SampType: LCS	TestCode: NWTPHDXLL	Units: mg/L	Prep Date: 9/8/2011	Run ID: GC-M_110909B						
Client ID: ZZZZZ	Batch ID: 29372	TestNo: NWTPH-Dx	Analysis Date: 9/9/2011	SeqNo: 775990							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	0.9174	0.0800	1	0	91.7	60.7	121	0	0		
Lube Oil	0.916	0.200	1	0	91.6	64	126	0	0		

Sample ID: LCSD-29372	SampType: LCSD	TestCode: NWTPHDXLL	Units: mg/L	Prep Date: 9/8/2011	Run ID: GC-M_110909B						
Client ID: ZZZZZ	Batch ID: 29372	TestNo: NWTPH-Dx	Analysis Date: 9/9/2011	SeqNo: 775991							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1.01	0.0800	1	0	101	60.7	121	0.9174	9.60	20	
Lube Oil	1.085	0.200	1	0	109	64	126	0.916	16.9	20	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXLL	Units: mg/L	Prep Date:	Run ID: GC-M_110909B						
Client ID: ZZZZZ	Batch ID: 29372	TestNo: NWTPH-Dx	Analysis Date: 9/9/2011	SeqNo: 775988							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	6.45	0.0800	6.057	0	106	85	115	0	0		
Lube Oil	3.501	0.200	3.15	0	111	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXLL	Units: mg/L	Prep Date:	Run ID: GC-M_110909B						
Client ID: ZZZZZ	Batch ID: 29372	TestNo: NWTPH-Dx	Analysis Date: 9/9/2011	SeqNo: 776002							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109059
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDXLL_W

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXLL	Units: mg/L	Prep Date:	Run ID: GC-M_110909B						
Client ID: ZZZZZ	Batch ID: 29372	TestNo: NWTPH-Dx		Analysis Date: 9/9/2011	SeqNo: 776002						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	8.037	0.0800	8.076	0	99.5	85	115	0	0		
Lube Oil	4.294	0.200	4.2	0	102	85	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109059
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHGX_W

Sample ID: MB-29387	SampType: MBLK	TestCode: NWTPHGX_	Units: µg/L	Prep Date: 9/9/2011	Run ID: GC-I_110909A						
Client ID: ZZZZZ	Batch ID: 29387	TestNo: NWTPH-Gx		Analysis Date: 9/9/2011	SeqNo: 775688						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	100									
Surr: 4-Bromofluorobenzene	94.43	0	100	0	94.4	50	150	0	0		

Sample ID: LCS-29387	SampType: LCS	TestCode: NWTPHGX_	Units: µg/L	Prep Date: 9/9/2011	Run ID: GC-I_110909A						
Client ID: ZZZZZ	Batch ID: 29387	TestNo: NWTPH-Gx		Analysis Date: 9/9/2011	SeqNo: 775687						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	2330	100	2500	0	93.2	74.4	128	0	0		
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Sample ID: 1109059-02DDUP	SampType: DUP	TestCode: NWTPHGX_	Units: µg/L	Prep Date: 9/9/2011	Run ID: GC-I_110909A						
Client ID: MW-5	Batch ID: 29387	TestNo: NWTPH-Gx		Analysis Date: 9/9/2011	SeqNo: 775691						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	100	0	0	0	0	0	0	0	20	
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Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_	Units: µg/L	Prep Date:				Run ID: GC-I_110909A			
Client ID: ZZZZZ	Batch ID: 29387	TestNo: NWTPH-Gx		Analysis Date: 9/9/2011				SeqNo: 775692			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	1679	100	2000	0	84	80	120	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

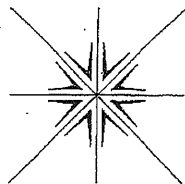
B - Analyte detected in the associated Method Blank

KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result great than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.

Page 1 of 1



11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Company MEA

Address 2001 NW 19th Ave Ste 200
Portland, OR 97209

Phone _____ Fax _____

Project No. 0729, 04, 01 Project Name

Project Site Location OR _____ WA X Other _____

Invoice To _____ P.O. No. _____

Collected By:

Signature 

Printed Maayan Galka

Signature_____

Printed _____

Turn Around Time

☒ Normal 5-7 Business Days

☐ Rush

Specify

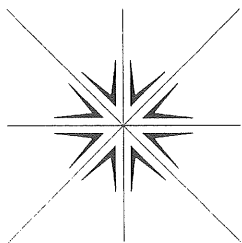
Rush Analyses Must Be Scheduled With The Lab In Advance

[illegible]

Copies: White-Original

Yellow-Project File

Pink-Customer Copy



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
(503) 607-1331
Fax (503) 607-1336

October 06, 2011

Christina Johnson
Maul, Foster & Alongi
7223 NE Hazel Dell Avenue
Suite B
Vancouver, WA 98665

TEL: (360) 694-2691
FAX: (360) 906-1958

RE: Port of Camas / 0229.04.01
Dear Christina Johnson:

Order No.: 1109060

Specialty Analytical received 4 samples on 9/8/2011 for the analyses presented in the following report.

REVISED REPORT VERSION 1 . Please see case narrative for information on revision.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.


Cindy Hillyard
Project Manager


Technical Review

Specialty Analytical

Date: 06-Oct-11

CLIENT: Maul, Foster & Alongi
Project: Port of Camas / 0229.04.01
Lab Order: 1109060

CASE NARRATIVE

Report Revision 1

This report includes the original data with the addition of Total Zinc by EPA 6010, 2-Methylnaphthalene by PAH GC/MS and 3&4-Methylpenol by EPA 8270 on all samples, which was missed during log in. The report is also being reported to the lab MDL's to obtain lower reporting values.

Specialty Analytical

Date: 06-Oct-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109060
Project: Port of Camas / 0229.04.01
Lab ID: 1109060-01

Client Sample ID: Sed-01
Collection Date: 9/7/2011 12:45:00 PM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Limit	Units	DF	Date Analyzed
TOTAL METALS BY ICP							
		E6010					Analyst: zau
Arsenic	3.12		0.318	1.59	mg/Kg-dry	1	9/9/2011 7:11:21 PM
Cadmium	ND		0.0318	0.0794	mg/Kg-dry	1	9/9/2011 7:11:21 PM
Chromium	6.45		0.159	0.397	mg/Kg-dry	1	9/9/2011 7:11:21 PM
Copper	3.16		0.318	0.794	mg/Kg-dry	1	9/9/2011 7:11:21 PM
Lead	5.16		0.556	1.59	mg/Kg-dry	1	9/9/2011 7:11:21 PM
Nickel	4.16		0.0794	0.397	mg/Kg-dry	1	9/9/2011 7:11:21 PM
Zinc	23.4		0.0477	0.794	mg/Kg-dry	1	9/9/2011 7:11:21 PM
TOTAL METALS BY ICP/MS							
		SW6020					Analyst: zau
Antimony	17	J	4.48	107	µg/Kg-dry	1	9/16/2011 1:19:00 PM
Silver	54.0		1.07	21.3	µg/Kg-dry	1	9/16/2011 1:19:00 PM
PCB'S IN SOIL							
		SW8082					Analyst: jrp
Aroclor 1016	ND		0.139	0.455	µg/Kg-dry	1	9/12/2011
Aroclor 1221	ND		0.139	0.455	µg/Kg-dry	1	9/12/2011
Aroclor 1232	ND		0.139	0.455	µg/Kg-dry	1	9/12/2011
Aroclor 1242	ND		0.139	0.455	µg/Kg-dry	1	9/12/2011
Aroclor 1248	ND		0.139	0.455	µg/Kg-dry	1	9/12/2011
Aroclor 1254	ND		0.139	0.455	µg/Kg-dry	1	9/12/2011
Aroclor 1260	ND		0.139	0.455	µg/Kg-dry	1	9/12/2011
Aroclor 1262	ND		0.139	0.455	µg/Kg-dry	1	9/12/2011
Aroclor 1268	ND		0.139	0.455	µg/Kg-dry	1	9/12/2011
Surr: Decachlorobiphenyl	75.3		0	56.5-130	%REC	1	9/12/2011
SEMIVOLATILE ORGANICS BY GC/MS							
		SW8270D					Analyst: bda
1,2,4-Trichlorobenzene	ND		11.1	45.5	µg/Kg-dry	1	9/22/2011 11:20:00 A
1,2-Dichlorobenzene	ND		25.4	45.5	µg/Kg-dry	1	9/22/2011 11:20:00 A
1,4-Dichlorobenzene	ND		26.7	45.5	µg/Kg-dry	1	9/22/2011 11:20:00 A
2,4-Dimethylphenol	ND		11.6	45.5	µg/Kg-dry	1	9/22/2011 11:20:00 A
2-Methylphenol	ND		15.1	45.5	µg/Kg-dry	1	9/22/2011 11:20:00 A
3-&4-Methylphenol	ND		15.6	45.5	µg/Kg-dry	1	9/22/2011 11:20:00 A
Benzoic Acid	ND		43.1	911	µg/Kg-dry	1	9/22/2011 11:20:00 A
Benzyl Alcohol	ND		42.0	45.5	µg/Kg-dry	1	9/22/2011 11:20:00 A
Benzyl butyl phthalate	ND		11.1	45.5	µg/Kg-dry	1	9/22/2011 11:20:00 A
Bis(2-ethylhexyl)phthalate	ND		18.1	45.5	µg/Kg-dry	1	9/22/2011 11:20:00 A
Di-n-butyl phthalate	ND		32.7	68.3	µg/Kg-dry	1	9/22/2011 11:20:00 A
Di-n-octyl phthalate	ND		13.0	45.5	µg/Kg-dry	1	9/22/2011 11:20:00 A
Dibenzofuran	ND		9.52	45.5	µg/Kg-dry	1	9/22/2011 11:20:00 A
Diethyl phthalate	ND		14.0	45.5	µg/Kg-dry	1	9/22/2011 11:20:00 A
Dimethyl phthalate	ND		13.7	45.5	µg/Kg-dry	1	9/22/2011 11:20:00 A
Hexachlorobenzene	ND		11.4	45.5	µg/Kg-dry	1	9/22/2011 11:20:00 A
Hexachlorobutadiene	ND		16.0	45.5	µg/Kg-dry	1	9/22/2011 11:20:00 A

Specialty Analytical

Date: 06-Oct-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109060
Project: Port of Camas / 0229.04.01
Lab ID: 1109060-01

Client Sample ID: Sed-01
Collection Date: 9/7/2011 12:45:00 PM
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Limit	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY GC/MS		SW8270D		Analyst: bda			
Hexachloroethane	ND		26.0	45.5	µg/Kg-dry	1	9/22/2011 11:20:00 A
N-Nitrosodiphenylamine	ND		7.30	45.5	µg/Kg-dry	1	9/22/2011 11:20:00 A
Pentachlorophenol	ND		49.6	68.3	µg/Kg-dry	1	9/22/2011 11:20:00 A
Phenol	ND		15.3	45.5	µg/Kg-dry	1	9/22/2011 11:20:00 A
Surr: 2,4,6-Tribromophenol	27.4	S,MI	0	57.8-119	%REC	1	9/22/2011 11:20:00 A
Surr: 2-Fluorobiphenyl	42.4	S,MI	0	52.6-93.2	%REC	1	9/22/2011 11:20:00 A
Surr: 2-Fluorophenol	36.2	S,MI	0	40.7-111	%REC	1	9/22/2011 11:20:00 A
Surr: 4-Terphenyl-d14	66.1		0	49.8-118	%REC	1	9/22/2011 11:20:00 A
Surr: Nitrobenzene-d5	33.5	S,MI	0	44.8-103	%REC	1	9/22/2011 11:20:00 A
Surr: Phenol-d6	30.8	S,MI	0	47.5-117	%REC	1	9/22/2011 11:20:00 A
PARTICLE SIZE DISTRIBUTION		D422		Analyst: sub			
Particle Size	See attached report		0	1 10/3/2011			
MERCURY, TOTAL		SW7471		Analyst: eh			
Mercury	0.0041	J	0.00110	0.0132	mg/Kg-dry	1	9/12/2011
NWTPH-DX		NWTPH-DX		Analyst: jrp			
Diesel	ND		8.20	20.5	mg/Kg-dry	1	9/13/2011
Lube Oil	ND		23.2	68.3	mg/Kg-dry	1	9/13/2011
Surr: o-Terphenyl	90.3		0	50-150	%REC	1	9/13/2011
LOW LEVEL PAH BY GC/MS		8270SIM		Analyst: das			
2-Methylnaphthalene	ND		1.44	9.11	µg/Kg-dry	1	9/14/2011 9:25:00 PM
Acenaphthene	ND		1.59	9.11	µg/Kg-dry	1	9/14/2011 9:25:00 PM
Acenaphthylene	ND		0.997	9.11	µg/Kg-dry	1	9/14/2011 9:25:00 PM
Anthracene	2.7	J	0.272	9.11	µg/Kg-dry	1	9/14/2011 9:25:00 PM
Benz(a)anthracene	4.6	J	1.06	9.11	µg/Kg-dry	1	9/14/2011 9:25:00 PM
Benzo(a)pyrene	ND		0.702	9.11	µg/Kg-dry	1	9/14/2011 9:25:00 PM
Benzo(b)fluoranthene	5.5	J	1.81	9.11	µg/Kg-dry	1	9/14/2011 9:25:00 PM
Benzo(g,h,i)perylene	5.5	J	0.951	9.11	µg/Kg-dry	1	9/14/2011 9:25:00 PM
Benzo(k)fluoranthene	2.7	J	0.518	9.11	µg/Kg-dry	1	9/14/2011 9:25:00 PM
Chrysene	5.5	J	0.929	9.11	µg/Kg-dry	1	9/14/2011 9:25:00 PM
Dibenz(a,h)anthracene	ND		0.877	9.11	µg/Kg-dry	1	9/14/2011 9:25:00 PM
Fluoranthene	4.6	J	0.415	9.11	µg/Kg-dry	1	9/14/2011 9:25:00 PM
Fluorene	ND		0.381	9.11	µg/Kg-dry	1	9/14/2011 9:25:00 PM
Indeno(1,2,3-cd)pyrene	ND		0.940	9.11	µg/Kg-dry	1	9/14/2011 9:25:00 PM
Naphthalene	1.8	J	1.53	9.11	µg/Kg-dry	1	9/14/2011 9:25:00 PM
Phenanthrene	ND		0.369	9.11	µg/Kg-dry	1	9/14/2011 9:25:00 PM
Pyrene	3.6	J	0.952	9.11	µg/Kg-dry	1	9/14/2011 9:25:00 PM
Surr: 2-Fluorobiphenyl	34.2	S	0	42.6-128	%REC	1	9/14/2011 9:25:00 PM
Surr: Nitrobenzene-d5	28.7		0	21.7-155	%REC	1	9/14/2011 9:25:00 PM

Specialty Analytical

Date: 06-Oct-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109060
Project: Port of Camas / 0229.04.01
Lab ID: 1109060-01

Client Sample ID: Sed-01
Collection Date: 9/7/2011 12:45:00 PM
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Limit	Units	DF	Date Analyzed
LOW LEVEL PAH BY GC/MS		8270SIM					Analyst: das
Surr: p-Terphenyl-d14	80.6		0	44.9-155	%REC	1	9/14/2011 9:25:00 PM
TOTAL SOLIDS		A2216					Analyst: at
Total Solids	79.0		0	0.100	wt%	1	9/9/2011
ORGANIC CARBON, TOTAL		SW9060					Analyst: jrj
Total Organic Carbon	1180		11.0	100	mg/Kg-dry	1	9/15/2011

Specialty Analytical

Date: 06-Oct-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109060
Project: Port of Camas / 0229.04.01
Lab ID: 1109060-02

Client Sample ID: Sed-02
Collection Date: 9/7/2011 12:30:00 PM
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Limit	Units	DF	Date Analyzed
TOTAL METALS BY ICP							
	E6010						Analyst: zau
Arsenic	5.75		0.434	2.17	mg/Kg-dry	1	9/9/2011 7:16:18 PM
Cadmium	0.271		0.0434	0.108	mg/Kg-dry	1	9/9/2011 7:16:18 PM
Chromium	13.9		0.217	0.542	mg/Kg-dry	1	9/9/2011 7:16:18 PM
Copper	14.1		0.434	1.08	mg/Kg-dry	1	9/9/2011 7:16:18 PM
Lead	5.46		0.759	2.17	mg/Kg-dry	1	9/9/2011 7:16:18 PM
Nickel	8.70		0.108	0.542	mg/Kg-dry	1	9/9/2011 7:16:18 PM
Zinc	109		0.0651	1.08	mg/Kg-dry	1	9/9/2011 7:16:18 PM
TOTAL METALS BY ICP/MS							
	SW6020						Analyst: zau
Antimony	145		4.90	117	µg/Kg-dry	1	9/16/2011 1:26:00 PM
Silver	129		1.17	23.3	µg/Kg-dry	1	9/16/2011 1:26:00 PM
PCB'S IN SOIL							
	SW8082						Analyst: jrp
Aroclor 1016	ND		0.190	0.621	µg/Kg-dry	1	9/12/2011
Aroclor 1221	ND		0.190	0.621	µg/Kg-dry	1	9/12/2011
Aroclor 1232	ND		0.190	0.621	µg/Kg-dry	1	9/12/2011
Aroclor 1242	ND		0.190	0.621	µg/Kg-dry	1	9/12/2011
Aroclor 1248	ND		0.190	0.621	µg/Kg-dry	1	9/12/2011
Aroclor 1254	ND		0.190	0.621	µg/Kg-dry	1	9/12/2011
Aroclor 1260	ND		0.190	0.621	µg/Kg-dry	1	9/12/2011
Aroclor 1262	ND		0.190	0.621	µg/Kg-dry	1	9/12/2011
Aroclor 1268	ND		0.190	0.621	µg/Kg-dry	1	9/12/2011
Surr: Decachlorobiphenyl	79.9		0	56.5-130	%REC	1	9/12/2011
SEMIVOLATILE ORGANICS BY GC/MS							
	SW8270D						Analyst: bda
1,2,4-Trichlorobenzene	ND		15.1	62.1	µg/Kg-dry	1	9/22/2011 12:40:00 P
1,2-Dichlorobenzene	ND		34.7	62.1	µg/Kg-dry	1	9/22/2011 12:40:00 P
1,4-Dichlorobenzene	ND		36.5	62.1	µg/Kg-dry	1	9/22/2011 12:40:00 P
2,4-Dimethylphenol	ND		15.9	62.1	µg/Kg-dry	1	9/22/2011 12:40:00 P
2-Methylphenol	ND		20.6	62.1	µg/Kg-dry	1	9/22/2011 12:40:00 P
3-&4-Methylphenol	85.8		21.4	62.1	µg/Kg-dry	1	9/22/2011 12:40:00 P
Benzoic Acid	ND		58.8	1240	µg/Kg-dry	1	9/22/2011 12:40:00 P
Benzyl Alcohol	ND		57.4	62.1	µg/Kg-dry	1	9/22/2011 12:40:00 P
Benzyl butyl phthalate	ND		15.2	62.1	µg/Kg-dry	1	9/22/2011 12:40:00 P
Bis(2-ethylhexyl)phthalate	ND		24.7	62.1	µg/Kg-dry	1	9/22/2011 12:40:00 P
Di-n-butyl phthalate	ND		44.7	93.3	µg/Kg-dry	1	9/22/2011 12:40:00 P
Di-n-octyl phthalate	ND		17.8	62.1	µg/Kg-dry	1	9/22/2011 12:40:00 P
Dibenzofuran	ND		13.0	62.1	µg/Kg-dry	1	9/22/2011 12:40:00 P
Diethyl phthalate	ND		19.1	62.1	µg/Kg-dry	1	9/22/2011 12:40:00 P
Dimethyl phthalate	ND		18.7	62.1	µg/Kg-dry	1	9/22/2011 12:40:00 P
Hexachlorobenzene	ND		15.5	62.1	µg/Kg-dry	1	9/22/2011 12:40:00 P
Hexachlorobutadiene	ND		21.9	62.1	µg/Kg-dry	1	9/22/2011 12:40:00 P

Specialty Analytical

Date: 06-Oct-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109060
Project: Port of Camas / 0229.04.01
Lab ID: 1109060-02

Client Sample ID: Sed-02
Collection Date: 9/7/2011 12:30:00 PM
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Limit	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY GC/MS							
		SW8270D					Analyst: bda
Hexachloroethane	ND		35.5	62.1	µg/Kg-dry	1	9/22/2011 12:40:00 P
N-Nitrosodiphenylamine	ND		9.96	62.1	µg/Kg-dry	1	9/22/2011 12:40:00 P
Pentachlorophenol	ND		67.8	93.3	µg/Kg-dry	1	9/22/2011 12:40:00 P
Phenol	ND		20.9	62.1	µg/Kg-dry	1	9/22/2011 12:40:00 P
Surr: 2,4,6-Tribromophenol	88.4		0	57.8-119	%REC	1	9/22/2011 12:40:00 P
Surr: 2-Fluorobiphenyl	80.8		0	52.6-93.2	%REC	1	9/22/2011 12:40:00 P
Surr: 2-Fluorophenol	58.1		0	40.7-111	%REC	1	9/22/2011 12:40:00 P
Surr: 4-Terphenyl-d14	121	S	0	49.8-118	%REC	1	9/22/2011 12:40:00 P
Surr: Nitrobenzene-d5	50.3		0	44.8-103	%REC	1	9/22/2011 12:40:00 P
Surr: Phenol-d6	56.5		0	47.5-117	%REC	1	9/22/2011 12:40:00 P
PARTICLE SIZE DISTRIBUTION							
		D422					Analyst: sub
Particle Size	See attached report		0			1	10/3/2011
MERCURY, TOTAL							
		SW7471					Analyst: eh
Mercury	0.0384		0.000979	0.0117	mg/Kg-dry	1	9/12/2011
NWTPH-DX							
		NWTPH-DX					Analyst: jrp
Diesel	117	A1	11.2	28.0	mg/Kg-dry	1	9/13/2011
Lube Oil	258	A2	31.7	93.3	mg/Kg-dry	1	9/13/2011
Surr: o-Terphenyl	93.9		0	50-150	%REC	1	9/13/2011
LOW LEVEL PAH BY GC/MS							
		8270SIM					Analyst: das
2-Methylnaphthalene	ND		1.97	12.4	µg/Kg-dry	1	9/14/2011 9:51:00 PM
Acenaphthene	5.0	J	2.17	12.4	µg/Kg-dry	1	9/14/2011 9:51:00 PM
Acenaphthylene	ND		1.36	12.4	µg/Kg-dry	1	9/14/2011 9:51:00 PM
Anthracene	5.0	J	0.371	12.4	µg/Kg-dry	1	9/14/2011 9:51:00 PM
Benz(a)anthracene	11	J	1.45	12.4	µg/Kg-dry	1	9/14/2011 9:51:00 PM
Benzo(a)pyrene	14.9		0.959	12.4	µg/Kg-dry	1	9/14/2011 9:51:00 PM
Benzo(b)fluoranthene	18.7		2.47	12.4	µg/Kg-dry	1	9/14/2011 9:51:00 PM
Benzo(g,h,i)perylene	12.4		1.30	12.4	µg/Kg-dry	1	9/14/2011 9:51:00 PM
Benzo(k)fluoranthene	11	J	0.707	12.4	µg/Kg-dry	1	9/14/2011 9:51:00 PM
Chrysene	18.7		1.27	12.4	µg/Kg-dry	1	9/14/2011 9:51:00 PM
Dibenz(a,h)anthracene	ND		1.20	12.4	µg/Kg-dry	1	9/14/2011 9:51:00 PM
Fluoranthene	26.1		0.567	12.4	µg/Kg-dry	1	9/14/2011 9:51:00 PM
Fluorene	6.2	J	0.521	12.4	µg/Kg-dry	1	9/14/2011 9:51:00 PM
Indeno(1,2,3-cd)pyrene	8.7	J	1.28	12.4	µg/Kg-dry	1	9/14/2011 9:51:00 PM
Naphthalene	7.5	J	2.10	12.4	µg/Kg-dry	1	9/14/2011 9:51:00 PM
Phenanthrene	18.7		0.504	12.4	µg/Kg-dry	1	9/14/2011 9:51:00 PM
Pyrene	29.9		1.30	12.4	µg/Kg-dry	1	9/14/2011 9:51:00 PM
Surr: 2-Fluorobiphenyl	58.7		0	42.6-128	%REC	1	9/14/2011 9:51:00 PM
Surr: Nitrobenzene-d5	56.9		0	21.7-155	%REC	1	9/14/2011 9:51:00 PM

Specialty Analytical

Date: 06-Oct-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109060
Project: Port of Camas / 0229.04.01
Lab ID: 1109060-02

Client Sample ID: Sed-02
Collection Date: 9/7/2011 12:30:00 PM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Limit	Units	DF	Date Analyzed
LOW LEVEL PAH BY GC/MS		8270SIM					Analyst: das
Surr: p-Terphenyl-d14	90.5		0	44.9-155	%REC	1	9/14/2011 9:51:00 PM
TOTAL SOLIDS		A2216					Analyst: at
Total Solids	59.5		0	0.100	wt%	1	9/9/2011
ORGANIC CARBON, TOTAL		SW9060					Analyst: jrj
Total Organic Carbon	5980		11.0	100	mg/Kg-dry	1	9/15/2011

Specialty Analytical

Date: 06-Oct-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109060
Project: Port of Camas / 0229.04.01
Lab ID: 1109060-03

Client Sample ID: Sed-03
Collection Date: 9/7/2011 11:45:00 AM
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Limit	Units	DF	Date Analyzed
TOTAL METALS BY ICP							
	E6010						Analyst: zau
Arsenic	6.15		0.473	2.37	mg/Kg-dry	1	9/9/2011 7:21:15 PM
Cadmium	0.130		0.0473	0.118	mg/Kg-dry	1	9/9/2011 7:21:15 PM
Chromium	12.3		0.237	0.591	mg/Kg-dry	1	9/9/2011 7:21:15 PM
Copper	9.37		0.473	1.18	mg/Kg-dry	1	9/9/2011 7:21:15 PM
Lead	4.73		0.828	2.37	mg/Kg-dry	1	9/9/2011 7:21:15 PM
Nickel	8.01		0.118	0.591	mg/Kg-dry	1	9/9/2011 7:21:15 PM
Zinc	81.1		0.0710	1.18	mg/Kg-dry	1	9/9/2011 7:21:15 PM
TOTAL METALS BY ICP/MS							
	SW6020						Analyst: zau
Antimony	49	J	4.35	103	µg/Kg-dry	1	9/16/2011 1:33:00 PM
Silver	97.1		1.03	20.7	µg/Kg-dry	1	9/16/2011 1:33:00 PM
PCB'S IN SOIL							
	SW8082						Analyst: jrp
Aroclor 1016	ND		0.169	0.551	µg/Kg-dry	1	9/12/2011
Aroclor 1221	ND		0.169	0.551	µg/Kg-dry	1	9/12/2011
Aroclor 1232	ND		0.169	0.551	µg/Kg-dry	1	9/12/2011
Aroclor 1242	ND		0.169	0.551	µg/Kg-dry	1	9/12/2011
Aroclor 1248	ND		0.169	0.551	µg/Kg-dry	1	9/12/2011
Aroclor 1254	ND		0.169	0.551	µg/Kg-dry	1	9/12/2011
Aroclor 1260	ND		0.169	0.551	µg/Kg-dry	1	9/12/2011
Aroclor 1262	ND		0.169	0.551	µg/Kg-dry	1	9/12/2011
Aroclor 1268	ND		0.169	0.551	µg/Kg-dry	1	9/12/2011
Surr: Decachlorobiphenyl	74.5		0	56.5-130	%REC	1	9/12/2011
SEMIVOLATILE ORGANICS BY GC/MS							
	SW8270D						Analyst: bda
1,2,4-Trichlorobenzene	ND		13.4	55.1	µg/Kg-dry	1	9/22/2011 11:47:00 A
1,2-Dichlorobenzene	ND		30.8	55.1	µg/Kg-dry	1	9/22/2011 11:47:00 A
1,4-Dichlorobenzene	ND		32.4	55.1	µg/Kg-dry	1	9/22/2011 11:47:00 A
2,4-Dimethylphenol	ND		14.1	55.1	µg/Kg-dry	1	9/22/2011 11:47:00 A
2-Methylphenol	ND		18.3	55.1	µg/Kg-dry	1	9/22/2011 11:47:00 A
3-&4-Methylphenol	ND		19.0	55.1	µg/Kg-dry	1	9/22/2011 11:47:00 A
Benzoic Acid	ND		52.2	1100	µg/Kg-dry	1	9/22/2011 11:47:00 A
Benzyl Alcohol	ND		51.0	55.1	µg/Kg-dry	1	9/22/2011 11:47:00 A
Benzyl butyl phthalate	ND		13.5	55.1	µg/Kg-dry	1	9/22/2011 11:47:00 A
Bis(2-ethylhexyl)phthalate	ND		21.9	55.1	µg/Kg-dry	1	9/22/2011 11:47:00 A
Di-n-butyl phthalate	ND		39.7	82.8	µg/Kg-dry	1	9/22/2011 11:47:00 A
Di-n-octyl phthalate	ND		15.8	55.1	µg/Kg-dry	1	9/22/2011 11:47:00 A
Dibenzofuran	ND		11.5	55.1	µg/Kg-dry	1	9/22/2011 11:47:00 A
Diethyl phthalate	ND		17.0	55.1	µg/Kg-dry	1	9/22/2011 11:47:00 A
Dimethyl phthalate	ND		16.6	55.1	µg/Kg-dry	1	9/22/2011 11:47:00 A
Hexachlorobenzene	ND		13.8	55.1	µg/Kg-dry	1	9/22/2011 11:47:00 A
Hexachlorobutadiene	ND		19.4	55.1	µg/Kg-dry	1	9/22/2011 11:47:00 A

Specialty Analytical

Date: 06-Oct-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109060
Project: Port of Camas / 0229.04.01
Lab ID: 1109060-03

Client Sample ID: Sed-03
Collection Date: 9/7/2011 11:45:00 AM
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Limit	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY GC/MS		SW8270D		Analyst: bda			
Hexachloroethane	ND		31.5	55.1	µg/Kg-dry	1	9/22/2011 11:47:00 A
N-Nitrosodiphenylamine	ND		8.84	55.1	µg/Kg-dry	1	9/22/2011 11:47:00 A
Pentachlorophenol	ND		60.1	82.8	µg/Kg-dry	1	9/22/2011 11:47:00 A
Phenol	ND		18.5	55.1	µg/Kg-dry	1	9/22/2011 11:47:00 A
Surr: 2,4,6-Tribromophenol	55.4	S,MI	0	57.8-119	%REC	1	9/22/2011 11:47:00 A
Surr: 2-Fluorobiphenyl	92.9		0	52.6-93.2	%REC	1	9/22/2011 11:47:00 A
Surr: 2-Fluorophenol	51.5		0	40.7-111	%REC	1	9/22/2011 11:47:00 A
Surr: 4-Terphenyl-d14	118	S	0	49.8-118	%REC	1	9/22/2011 11:47:00 A
Surr: Nitrobenzene-d5	61.4		0	44.8-103	%REC	1	9/22/2011 11:47:00 A
Surr: Phenol-d6	55.6		0	47.5-117	%REC	1	9/22/2011 11:47:00 A
PARTICLE SIZE DISTRIBUTION		D422		Analyst: sub			
Particle Size	See attached report		0	1 10/3/2011			
MERCURY, TOTAL		SW7471		Analyst: eh			
Mercury	0.0445		0.000790	0.00943	mg/Kg-dry	1	9/12/2011
NWTPH-DX		NWTPH-DX		Analyst: jrp			
Diesel	ND		9.93	24.8	mg/Kg-dry	1	9/13/2011
Lube Oil	82	J	28.1	82.8	mg/Kg-dry	1	9/13/2011
Surr: o-Terphenyl	91.5		0	50-150	%REC	1	9/13/2011
LOW LEVEL PAH BY GC/MS		8270SIM		Analyst: das			
2-Methylnaphthalene	ND		1.75	11.0	µg/Kg-dry	1	9/14/2011 10:18:00 P
Acenaphthene	ND		1.93	11.0	µg/Kg-dry	1	9/14/2011 10:18:00 P
Acenaphthylene	2.2	J	1.21	11.0	µg/Kg-dry	1	9/14/2011 10:18:00 P
Anthracene	3.3	J	0.329	11.0	µg/Kg-dry	1	9/14/2011 10:18:00 P
Benz(a)anthracene	11.0		1.29	11.0	µg/Kg-dry	1	9/14/2011 10:18:00 P
Benzo(a)pyrene	12.1		0.851	11.0	µg/Kg-dry	1	9/14/2011 10:18:00 P
Benzo(b)fluoranthene	15.5		2.20	11.0	µg/Kg-dry	1	9/14/2011 10:18:00 P
Benzo(g,h,i)perylene	ND		1.15	11.0	µg/Kg-dry	1	9/14/2011 10:18:00 P
Benzo(k)fluoranthene	6.6	J	0.627	11.0	µg/Kg-dry	1	9/14/2011 10:18:00 P
Chrysene	11.0		1.13	11.0	µg/Kg-dry	1	9/14/2011 10:18:00 P
Dibenz(a,h)anthracene	ND		1.06	11.0	µg/Kg-dry	1	9/14/2011 10:18:00 P
Fluoranthene	17.7		0.503	11.0	µg/Kg-dry	1	9/14/2011 10:18:00 P
Fluorene	ND		0.462	11.0	µg/Kg-dry	1	9/14/2011 10:18:00 P
Indeno(1,2,3-cd)pyrene	6.6	J	1.14	11.0	µg/Kg-dry	1	9/14/2011 10:18:00 P
Naphthalene	3.3	J	1.86	11.0	µg/Kg-dry	1	9/14/2011 10:18:00 P
Phenanthrene	11.0		0.447	11.0	µg/Kg-dry	1	9/14/2011 10:18:00 P
Pyrene	16.6		1.15	11.0	µg/Kg-dry	1	9/14/2011 10:18:00 P
Surr: 2-Fluorobiphenyl	42.2	S	0	42.6-128	%REC	1	9/14/2011 10:18:00 P
Surr: Nitrobenzene-d5	41.3		0	21.7-155	%REC	1	9/14/2011 10:18:00 P

Specialty Analytical

Date: 06-Oct-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109060
Project: Port of Camas / 0229.04.01
Lab ID: 1109060-03

Client Sample ID: Sed-03
Collection Date: 9/7/2011 11:45:00 AM
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Limit	Units	DF	Date Analyzed
LOW LEVEL PAH BY GC/MS		8270SIM					Analyst: das
Surr: p-Terphenyl-d14	81.8		0	44.9-155	%REC	1	9/14/2011 10:18:00 P
TOTAL SOLIDS		A2216					Analyst: at
Total Solids	57.6		0	0.100	wt%	1	9/9/2011
ORGANIC CARBON, TOTAL		SW9060					Analyst: jrp
Total Organic Carbon	4710		11.0	100	mg/Kg-dry	1	9/15/2011

Specialty Analytical

Date: 06-Oct-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109060
Project: Port of Camas / 0229.04.01
Lab ID: 1109060-04

Client Sample ID: Sed-04
Collection Date: 9/7/2011 11:30:00 AM
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Limit	Units	DF	Date Analyzed
TOTAL METALS BY ICP							
	E6010						Analyst: zau
Arsenic	5.14		0.479	2.40	mg/Kg-dry	1	9/9/2011 7:26:13 PM
Cadmium	0.383		0.0479	0.120	mg/Kg-dry	1	9/9/2011 7:26:13 PM
Chromium	15.1		0.240	0.599	mg/Kg-dry	1	9/9/2011 7:26:13 PM
Copper	16.0		0.479	1.20	mg/Kg-dry	1	9/9/2011 7:26:13 PM
Lead	8.94		0.839	2.40	mg/Kg-dry	1	9/9/2011 7:26:13 PM
Nickel	10.4		0.120	0.599	mg/Kg-dry	1	9/9/2011 7:26:13 PM
Zinc	99.8		0.0719	1.20	mg/Kg-dry	1	9/9/2011 7:26:13 PM
TOTAL METALS BY ICP/MS							
	SW6020						Analyst: zau
Antimony	153		3.68	87.6	µg/Kg-dry	1	9/16/2011 12:53:00 P
Silver	160		0.876	17.5	µg/Kg-dry	1	9/16/2011 12:53:00 P
PCB'S IN SOIL							
	SW8082						Analyst: jrp
Aroclor 1016	ND		0.186	0.607	µg/Kg-dry	1	9/12/2011
Aroclor 1221	ND		0.186	0.607	µg/Kg-dry	1	9/12/2011
Aroclor 1232	ND		0.186	0.607	µg/Kg-dry	1	9/12/2011
Aroclor 1242	ND		0.186	0.607	µg/Kg-dry	1	9/12/2011
Aroclor 1248	ND		0.186	0.607	µg/Kg-dry	1	9/12/2011
Aroclor 1254	ND		0.186	0.607	µg/Kg-dry	1	9/12/2011
Aroclor 1260	ND		0.186	0.607	µg/Kg-dry	1	9/12/2011
Aroclor 1262	ND		0.186	0.607	µg/Kg-dry	1	9/12/2011
Aroclor 1268	ND		0.186	0.607	µg/Kg-dry	1	9/12/2011
Surr: Decachlorobiphenyl	51.0	S,MI	0	56.5-130	%REC	1	9/12/2011
SEMIVOLATILE ORGANICS BY GC/MS							
	SW8270D						Analyst: bda
1,2,4-Trichlorobenzene	ND		14.8	60.7	µg/Kg-dry	1	9/22/2011 12:13:00 P
1,2-Dichlorobenzene	ND		33.9	60.7	µg/Kg-dry	1	9/22/2011 12:13:00 P
1,4-Dichlorobenzene	ND		35.6	60.7	µg/Kg-dry	1	9/22/2011 12:13:00 P
2,4-Dimethylphenol	ND		15.5	60.7	µg/Kg-dry	1	9/22/2011 12:13:00 P
2-Methylphenol	ND		20.1	60.7	µg/Kg-dry	1	9/22/2011 12:13:00 P
3-&4-Methylphenol	ND		20.9	60.7	µg/Kg-dry	1	9/22/2011 12:13:00 P
Benzoic Acid	ND		57.5	1210	µg/Kg-dry	1	9/22/2011 12:13:00 P
Benzyl Alcohol	ND		56.1	60.7	µg/Kg-dry	1	9/22/2011 12:13:00 P
Benzyl butyl phthalate	ND		14.8	60.7	µg/Kg-dry	1	9/22/2011 12:13:00 P
Bis(2-ethylhexyl)phthalate	ND		24.1	60.7	µg/Kg-dry	1	9/22/2011 12:13:00 P
Di-n-butyl phthalate	ND		43.7	91.1	µg/Kg-dry	1	9/22/2011 12:13:00 P
Di-n-octyl phthalate	ND		17.4	60.7	µg/Kg-dry	1	9/22/2011 12:13:00 P
Dibenzofuran	ND		12.7	60.7	µg/Kg-dry	1	9/22/2011 12:13:00 P
Diethyl phthalate	ND		18.7	60.7	µg/Kg-dry	1	9/22/2011 12:13:00 P
Dimethyl phthalate	ND		18.3	60.7	µg/Kg-dry	1	9/22/2011 12:13:00 P
Hexachlorobenzene	ND		15.2	60.7	µg/Kg-dry	1	9/22/2011 12:13:00 P
Hexachlorobutadiene	ND		21.4	60.7	µg/Kg-dry	1	9/22/2011 12:13:00 P

Specialty Analytical

Date: 06-Oct-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109060
Project: Port of Camas / 0229.04.01
Lab ID: 1109060-04

Client Sample ID: Sed-04
Collection Date: 9/7/2011 11:30:00 AM
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Limit	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY GC/MS		SW8270D		Analyst: bda			
Hexachloroethane	ND		34.6	60.7	µg/Kg-dry	1	9/22/2011 12:13:00 P
N-Nitrosodiphenylamine	ND		9.73	60.7	µg/Kg-dry	1	9/22/2011 12:13:00 P
Pentachlorophenol	ND		66.2	91.1	µg/Kg-dry	1	9/22/2011 12:13:00 P
Phenol	ND		20.4	60.7	µg/Kg-dry	1	9/22/2011 12:13:00 P
Surr: 2,4,6-Tribromophenol	65.2		0	57.8-119	%REC	1	9/22/2011 12:13:00 P
Surr: 2-Fluorobiphenyl	79.7		0	52.6-93.2	%REC	1	9/22/2011 12:13:00 P
Surr: 2-Fluorophenol	44.8		0	40.7-111	%REC	1	9/22/2011 12:13:00 P
Surr: 4-Terphenyl-d14	115		0	49.8-118	%REC	1	9/22/2011 12:13:00 P
Surr: Nitrobenzene-d5	58.3		0	44.8-103	%REC	1	9/22/2011 12:13:00 P
Surr: Phenol-d6	55.3		0	47.5-117	%REC	1	9/22/2011 12:13:00 P
PARTICLE SIZE DISTRIBUTION		D422		Analyst: sub			
Particle Size	See attached report		0			1	10/3/2011
MERCURY, TOTAL		SW7471		Analyst: eh			
Mercury	0.0314		0.000890	0.0106	mg/Kg-dry	1	9/12/2011
NWTPH-DX		NWTPH-DX		Analyst: jrp			
Diesel	ND		10.9	27.3	mg/Kg-dry	1	9/13/2011
Lube Oil	72	J	31.0	91.1	mg/Kg-dry	1	9/13/2011
Surr: o-Terphenyl	84.3		0	50-150	%REC	1	9/13/2011
LOW LEVEL PAH BY GC/MS		8270SIM		Analyst: das			
2-Methylnaphthalene	ND		1.92	12.1	µg/Kg-dry	1	9/14/2011 10:44:00 P
Acenaphthene	ND		2.12	12.1	µg/Kg-dry	1	9/14/2011 10:44:00 P
Acenaphthylene	ND		1.33	12.1	µg/Kg-dry	1	9/14/2011 10:44:00 P
Anthracene	1.2	J	0.362	12.1	µg/Kg-dry	1	9/14/2011 10:44:00 P
Benz(a)anthracene	8.5	J	1.42	12.1	µg/Kg-dry	1	9/14/2011 10:44:00 P
Benzo(a)pyrene	8.5	J	0.936	12.1	µg/Kg-dry	1	9/14/2011 10:44:00 P
Benzo(b)fluoranthene	12.1		2.42	12.1	µg/Kg-dry	1	9/14/2011 10:44:00 P
Benzo(g,h,i)perylene	6.1	J	1.27	12.1	µg/Kg-dry	1	9/14/2011 10:44:00 P
Benzo(k)fluoranthene	4.9	J	0.690	12.1	µg/Kg-dry	1	9/14/2011 10:44:00 P
Chrysene	8.5	J	1.24	12.1	µg/Kg-dry	1	9/14/2011 10:44:00 P
Dibenz(a,h)anthracene	ND		1.17	12.1	µg/Kg-dry	1	9/14/2011 10:44:00 P
Fluoranthene	11	J	0.554	12.1	µg/Kg-dry	1	9/14/2011 10:44:00 P
Fluorene	ND		0.508	12.1	µg/Kg-dry	1	9/14/2011 10:44:00 P
Indeno(1,2,3-cd)pyrene	4.9	J	1.25	12.1	µg/Kg-dry	1	9/14/2011 10:44:00 P
Naphthalene	3.6	J	2.05	12.1	µg/Kg-dry	1	9/14/2011 10:44:00 P
Phenanthrene	6.1	J	0.492	12.1	µg/Kg-dry	1	9/14/2011 10:44:00 P
Pyrene	12.1		1.27	12.1	µg/Kg-dry	1	9/14/2011 10:44:00 P
Surr: 2-Fluorobiphenyl	34.7	S	0	42.6-128	%REC	1	9/14/2011 10:44:00 P
Surr: Nitrobenzene-d5	41.1		0	21.7-155	%REC	1	9/14/2011 10:44:00 P

Specialty Analytical

Date: 06-Oct-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109060
Project: Port of Camas / 0229.04.01
Lab ID: 1109060-04

Client Sample ID: Sed-04
Collection Date: 9/7/2011 11:30:00 AM
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Limit	Units	DF	Date Analyzed
LOW LEVEL PAH BY GC/MS		8270SIM					Analyst: das
Surr: p-Terphenyl-d14	77.1		0	44.9-155	%REC	1	9/14/2011 10:44:00 P
TOTAL SOLIDS		A2216					Analyst: at
Total Solids	57.3		0	0.100	wt%	1	9/9/2011
ORGANIC CARBON, TOTAL		SW9060					Analyst: jrp
Total Organic Carbon	5100		11.0	100	mg/Kg-dry	1	9/15/2011

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT**TestCode: 6010_S**

Sample ID: MBLK-29376	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/8/2011	Run ID: TJA IRIS_110909C						
Client ID: ZZZZZ	Batch ID: 29376	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775708						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	2.00									
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Sample ID: MBLK-29376	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/9/2011	Run ID: TJA IRIS_110909D						
Client ID: ZZZZZ	Batch ID: 29376	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775821						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	2.00									
Barium	ND	1.00									
Cadmium	ND	0.100									
Chromium	ND	0.500									
Copper	ND	1.00									
Lead	ND	2.00									
Nickel	ND	0.500									
Selenium	ND	2.00									
Silver	0.66	2.00									J
Zinc	ND	1.00									

Sample ID: LCS-29376	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/8/2011	Run ID: TJA IRIS_110909C						
Client ID: ZZZZZ	Batch ID: 29376	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775709						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	87.87	2.00	100	0	87.9	84.9	109	0	0		

Lead	87.87	2.00	100	0	87.9	84.9	109	0	0		
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Sample ID: LCS-29376		SampType: LCS		TestCode: 6010_S		Units: mg/Kg		Prep Date: 9/8/2011		Run ID: TJA IRIS_110909D	
Client ID: ZZZZZ		Batch ID: 29376		TestNo: E6010				Analysis Date: 9/9/2011		SeqNo: 775822	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	95.48	2.00	100	0	95.5	85.1	107	0	0		
Barium	48.88	1.00	50	0	97.8	85.7	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: LCS-29376		SampType: LCS		TestCode: 6010_S		Units: mg/Kg		Prep Date: 9/8/2011		Run ID: TJA IRIS_110909D			
Client ID: ZZZZZ		Batch ID: 29376		TestNo: E6010				Analysis Date: 9/9/2011		SeqNo: 775822			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	4.77	0.100	5	0	95.4	87.2	109	0	0		
Chromium	24.88	0.500	25	0	99.5	84	113	0	0		
Copper	47.77	1.00	50	0	95.5	91.3	111	0	0		
Lead	95.32	2.00	100	0	95.3	84.9	109	0	0		
Nickel	24.22	0.500	25	0	96.9	85.5	112	0	0		
Selenium	92.94	2.00	100	0	92.9	88.7	111	0	0		
Silver	45.3	2.00	50	0	90.6	79.3	109	0	0		
Zinc	51.26	1.00	50	0	103	86.8	112	0	0		

Sample ID: 1109055-03AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/8/2011	Run ID: TJA IRIS_110909C						
Client ID: ZZZZZ	Batch ID: 29376	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775712						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	365.8	1.85	92.59	292.2	79.5	84.9	109	0	0		S
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Sample ID: A1109055-03AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/8/2011	Run ID: TJA IRIS_110909D						
Client ID: ZZZZZ	Batch ID: 29376	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775825						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	91.24	1.85	92.59	4.426	93.8	86.1	109	0	0		
Barium	623.8	0.926	46.3	462	349	75	125	0	0		S,MC
Cadmium	4.454	0.0926	4.63	0.08333	94.4	86.4	113	0	0		
Chromium	45.54	0.463	23.15	22.92	97.7	75	121	0	0		
Copper	59.7	0.926	46.3	16.86	92.5	75.1	126	0	0		
Lead	395.2	1.85	92.59	306.3	96	84.9	109	0	0		
Nickel	34.8	0.463	23.15	10.87	103	89.3	105	0	0		
Selenium	80.53	1.85	92.59	0	87	77.7	116	0	0		
Silver	46.83	1.85	46.3	3.491	93.6	75	123	0	0		
Zinc	346.9	0.926	46.3	239.5	232	86.2	113	0	0		S

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 1109055-03AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/8/2011	Run ID: TJA IRIS_110909C						
Client ID: ZZZZZ	Batch ID: 29376	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775713						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	335.3	1.92	96.15	292.2	44.8	84.9	109	365.8	8.71	20	S
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Sample ID: A1109055-03AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/8/2011	Run ID: TJA IRIS_110909D						
Client ID: ZZZZZ	Batch ID: 29376	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775826						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	90.94	1.92	96.15	4.426	90	86.1	109	91.24	0.328	20	
Barium	595.4	0.962	48.08	462	277	75	125	623.8	4.66	20	S,MC
Cadmium	4.404	0.0962	4.808	0.08333	89.9	86.4	113	4.454	1.13	20	
Chromium	42.85	0.481	24.04	22.92	82.9	75	121	45.54	6.09	20	
Copper	57.71	0.962	48.08	16.86	85	75.1	126	59.7	3.39	20	
Lead	372.8	1.92	96.15	306.3	69.2	84.9	109	395.2	5.83	20	S
Nickel	32.08	0.481	24.04	10.87	88.2	89.3	105	34.8	8.13	20	S
Selenium	81.91	1.92	96.15	0	85.2	77.7	116	80.53	1.71	20	
Silver	46.31	1.92	48.08	3.491	89.1	75	123	46.83	1.13	20	
Zinc	330	0.962	48.08	239.5	188	86.2	113	346.9	4.98	20	S

Sample ID: 1109055-03ADUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/8/2011	Run ID: TJA IRIS_110909C						
Client ID: ZZZZZ	Batch ID: 29376	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775711						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	357.9	1.85	0	0	0	0	0	292.2	20.2	20	R
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Sample ID: A1109055-03ADUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/8/2011	Run ID: TJA IRIS_110909D						
Client ID: ZZZZZ	Batch ID: 29376	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775824						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	3.435	1.85	0	0	0	0	0	4.426	25.2	20	RF
Barium	592.5	0.926	0	0	0	0	0	462	24.7	20	R
Cadmium	ND	0.0926	0	0	0	0	0	0.08333	0	20	
Chromium	20.94	0.463	0	0	0	0	0	22.92	8.99	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: A1109055-03ADUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/8/2011	Run ID: TJA IRIS_110909D						
Client ID: ZZZZZ	Batch ID: 29376	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775824						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	15.21	0.926	0	0	0	0	0	16.86	10.3	20	
Lead	380.6	1.85	0	0	0	0	0	306.3	21.6	20	R
Nickel	12.42	0.463	0	0	0	0	0	10.87	13.3	20	
Selenium	ND	1.85	0	0	0	0	0	0	0	20	
Silver	3.306	1.85	0	0	0	0	0	3.491	5.45	20	
Zinc	274.4	0.926	0	0	0	0	0	239.5	13.6	20	

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_110909C	
Client ID: ZZZZZ		Batch ID: 29376		TestNo: E6010				Analysis Date: 9/9/2011		SeqNo: 775707	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	95.51	2.00	100	0	95.5	90	110	0	0		
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Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_110909C						
Client ID: ZZZZZ	Batch ID: 29376	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775718						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	94.42	2.00	100	0	94.4	90	110	0	0		
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Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_110909D	
Client ID: ZZZZZ		Batch ID: 29376		TestNo: E6010				Analysis Date: 9/9/2011		SeqNo: 775830	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	100.8	2.00	100	0	101	90	110	0	0		
Barium	50.33	1.00	50	0	101	90	110	0	0		
Cadmium	4.99	0.100	5	0	99.8	90	110	0	0		
Chromium	25.11	0.500	25	0	100	90	110	0	0		
Copper	49.37	1.00	50	0	98.7	90	110	0	0		
Lead	100.5	2.00	100	0	101	90	110	0	0		
Nickel	25.26	0.500	25	0	101	90	110	0	0		
Selenium	98.29	2.00	100	0	98.3	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:			Run ID: TJA IRIS_110909D		
Client ID: ZZZZZ		Batch ID: 29376		TestNo: E6010		Analysis Date: 9/9/2011			SeqNo: 775830				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Silver	47.52	2.00	50	0	95	90	110	0	0	
Zinc	52.99	1.00	50	0	106	90	110	0	0	

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_110909D		
Client ID: ZZZZZ		Batch ID: 29376		TestNo: E6010				Analysis Date: 9/9/2011		SeqNo: 775840		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	99.48	2.00	100	0	99.5	90	110	0	0	
Barium	49.48	1.00	50	0	99	90	110	0	0	
Cadmium	4.86	0.100	5	0	97.2	90	110	0	0	
Chromium	25.3	0.500	25	0	101	90	110	0	0	
Copper	48.45	1.00	50	0	96.9	90	110	0	0	
Lead	97.98	2.00	100	0	98	90	110	0	0	
Nickel	24.79	0.500	25	0	99.2	90	110	0	0	
Selenium	95.19	2.00	100	0	95.2	90	110	0	0	
Silver	46.5	2.00	50	0	93	90	110	0	0	
Zinc	52.11	1.00	50	0	104	90	110	0	0	

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_110909D	
Client ID: ZZZZZ		Batch ID: 29376		TestNo: E6010				Analysis Date: 9/9/2011		SeqNo: 775845	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	103.1	2.00	100	0	103	90	110	0	0	
Cadmium	4.95	0.100	5	0	99	90	110	0	0	
Chromium	25.95	0.500	25	0	104	90	110	0	0	
Copper	49.2	1.00	50	0	98.4	90	110	0	0	
Lead	101.5	2.00	100	0	102	90	110	0	0	
Nickel	25.36	0.500	25	0	101	90	110	0	0	
Zinc	52.88	1.00	50	0	106	90	110	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: ICV	SampType: ICV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_110909C						
Client ID: ZZZZZ	Batch ID: 29376	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775706						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	98.21	2.00	100	0	98.2	90	110	0	0		

Sample ID: ICV	SampType: ICV	TestCode: 6010_S	Units: mg/Kg	Prep Date:				Run ID: TJA IRIS_110909D			
Client ID: ZZZZZ	Batch ID: 29376	TestNo: E6010	Analysis Date: 9/9/2011				SeqNo: 775820				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	100.3	2.00	100	0	100	90	110	0	0		
Barium	50.39	1.00	50	0	101	90	110	0	0		
Cadmium	4.98	0.100	5	0	99.6	90	110	0	0		
Chromium	25.1	0.500	25	0	100	90	110	0	0		
Copper	48.88	1.00	50	0	97.8	90	110	0	0		
Lead	100.9	2.00	100	0	101	90	110	0	0		
Nickel	25.39	0.500	25	0	102	90	110	0	0		
Selenium	98.49	2.00	100	0	98.5	90	110	0	0		
Silver	48.01	2.00	50	0	96	90	110	0	0		
Zinc	53.3	1.00	50	0	107	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S

Sample ID: MBLK-29432	SampType: MBLK	TestCode: 6020_S	Units: µg/Kg	Prep Date: 9/14/2011	Run ID: ICPMS_110916A						
Client ID: ZZZZZ	Batch ID: 29432	TestNo: SW6020		Analysis Date: 9/16/2011	SeqNo: 777396						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	30.79	50.0									J
Silver	1.698	10.0									J

Sample ID: LCS-29432	SampType: LCS	TestCode: 6020_S	Units: µg/Kg	Prep Date: 9/14/2011	Run ID: ICPMS_110916A						
Client ID: ZZZZZ	Batch ID: 29432	TestNo: SW6020		Analysis Date: 9/16/2011	SeqNo: 777397						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	4929	50.0	5000	0	98.6	70	110	0	0		
Silver	5076	10.0	5000	0	102	80	120	0	0		

Sample ID: 1109060-04AMS		SampType: MS		TestCode: 6020_S		Units: µg/Kg-dry		Prep Date: 9/14/2011		Run ID: ICPMS_110916A	
Client ID: Sed-04		Batch ID: 29432		TestNo: SW6020				Analysis Date: 9/16/2011		SeqNo: 777400	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	2812	91.1	9107	153.3	29.2	70	130	0	0		S
Silver	8774	18.2	9107	160.3	94.6	70	130	0	0		

Sample ID: 1109060-04AMSD	SampType: MSD	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 9/14/2011	Run ID: ICPMS_110916A						
Client ID: Sed-04	Batch ID: 29432	TestNo: SW6020		Analysis Date: 9/16/2011	SeqNo: 777401						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	2212	87.6	8757	153.3	23.5	70	130	2812	23.9	20	SR
Silver	7349	17.5	8757	160.3	82.1	70	130	8774	17.7	20	

Sample ID: 1109060-04ADUP	SampType: DUP	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 9/14/2011	Run ID: ICPMS_110916A						
Client ID: Sed-04	Batch ID: 29432	TestNo: SW6020		Analysis Date: 9/16/2011	SeqNo: 777399						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	149.1	84.3	0	0	0	0	0	153.3	2.77	20	
Silver	184.8	16.9	0	0	0	0	0	160.3	14.2	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_110916A						
Client ID: ZZZZZ	Batch ID: 29432	TestNo: SW6020		Analysis Date: 9/16/2011	SeqNo: 777395						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony
Silver

4847
5020

50.0
10.0

5000
5000

0
0

96.9
100

90
90

110
110

0
0

0
0

Sample ID: CCV		SampType: CCV		TestCode: 6020_S		Units: µg/Kg		Prep Date:		Run ID: ICPMS_110916A			
Client ID: ZZZZZ		Batch ID: 29432		TestNo: SW6020				Analysis Date: 9/16/2011		SeqNo: 777405			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony
Silver

4777
4945

50.0
10.0

5000
5000

0
0

95.5
98.9

90
90

110
110

0
0

0
0

Sample ID: ICV		SampType: ICV		TestCode: 6020_S		Units: µg/Kg		Prep Date:		Run ID: ICPMS_110916A			
Client ID: ZZZZZ		Batch ID: 29432		TestNo: SW6020				Analysis Date: 9/16/2011		SeqNo: 777394			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony
Silver

5154
5162

50.0
10.0

5000
5000

0
0

103
103

90
90

110
110

0
0

0
0

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: MB-29381	SampType: MBLK	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 9/8/2011	Run ID: GCK_110912C						
Client ID: ZZZZZ	Batch ID: 29381	TestNo: SW8082		Analysis Date: 9/12/2011	SeqNo: 776338						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Aroclor 1262
Aroclor 1268

ND
ND
ND
ND
ND
ND
ND
ND
ND

0.333
0.333
0.333
0.333
0.333
0.333
0.333
0.333
0.333

6667 0 127 56.5 130 0 0

Sample ID: LCS-29381	SampType: LCS	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 9/8/2011	Run ID: GCK_110912C						
Client ID: ZZZZZ	Batch ID: 29381	TestNo: SW8082		Analysis Date: 9/12/2011	SeqNo: 776339						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260

60.67

0.333

66.67

0

91

44.3

137

0

0

Sample ID: 1109045-04AMS	SampType: MS	TestCode: 8082LL_S	Units: µg/Kg-dry	Prep Date: 9/8/2011	Run ID: GCK_110912C						
Client ID: ZZZZZ	Batch ID: 29381	TestNo: SW8082		Analysis Date: 9/12/2011	SeqNo: 776340						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260

48.37

0.403

80.61

0

60

56.6

123

0

0

Sample ID: 1109045-04AMSD	SampType: MSD	TestCode: 8082LL_S	Units: µg/Kg-dry	Prep Date: 9/8/2011	Run ID: GCK_110912C						
Client ID: ZZZZZ	Batch ID: 29381	TestNo: SW8082		Analysis Date: 9/12/2011	SeqNo: 776341						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260

50.79

0.403

80.61

0

63

56.6

123

48.37

4.88

20

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_110912C						
Client ID: ZZZZZ	Batch ID: 29381	TestNo: SW8082		Analysis Date: 9/12/2011	SeqNo: 776337						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	67.33	0.333	66.67	0	101	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_110912C						
Client ID: ZZZZZ	Batch ID: 29381	TestNo: SW8082		Analysis Date: 9/12/2011	SeqNo: 776348						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	72	0.333	66.67	0	108	85	115	0	0		
Aroclor 1260	66.67	0.333	66.67	0	100	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_110912C						
Client ID: ZZZZZ	Batch ID: 29381	TestNo: SW8082		Analysis Date: 9/12/2011	SeqNo: 776528						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	64	0.333	66.67	0	96	85	115	0	0		
Aroclor 1260	58	0.333	66.67	0	87	85	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270LL_S

Sample ID: MB-29477	SampType: MBLK	TestCode: 8270LL_S	Units: µg/Kg	Prep Date: 9/20/2011	Run ID: 5973G_110922A						
Client ID: ZZZZZ	Batch ID: 29477	TestNo: SW8270D		Analysis Date: 9/22/2011	SeqNo: 778734						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	33.3									
1,2-Dichlorobenzene	ND	33.3									
1,2-Diphenylhydrazine	ND	167									
1,3-Dichlorobenzene	ND	33.3									
1,4-Dichlorobenzene	ND	33.3									
2,4,5-Trichlorophenol	ND	33.3									
2,4,6-Trichlorophenol	ND	33.3									
2,4-Dichlorophenol	ND	33.3									
2,4-Dimethylphenol	ND	33.3									
2,4-Dinitrophenol	ND	333									
2,4-Dinitrotoluene	ND	33.3									
2,6-Dinitrotoluene	ND	33.3									
2-Chloronaphthalene	ND	33.3									
2-Chlorophenol	ND	33.3									
2-Methylnaphthalene	ND	33.3									
2-Methylphenol	ND	33.3									
2-Nitroaniline	ND	33.3									
2-Nitrophenol	ND	167									
3,3-Dichlorobenzidine	ND	167									
3-&4-Methylphenol	ND	33.3									
3-Nitroaniline	ND	33.3									
4,6-Dinitro-2-methylphenol	ND	167									
4-Bromophenyl phenyl ether	ND	33.3									
4-Chloro-3-methylphenol	ND	33.3									
4-Chloroaniline	ND	33.3									
4-Chlorophenyl phenyl ether	ND	33.3									
4-Nitroaniline	ND	33.3									
4-Nitrophenol	ND	167									
Acenaphthene	ND	33.3									
Acenaphthylene	ND	33.3									
Anthracene	ND	33.3									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270LL_S

Sample ID: MB-29477	SampType: MBLK	TestCode: 8270LL_S	Units: µg/Kg	Prep Date: 9/20/2011	Run ID: 5973G_110922A						
Client ID: ZZZZZ	Batch ID: 29477	TestNo: SW8270D		Analysis Date: 9/22/2011	SeqNo: 778734						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	ND	33.3									
Benzidine	ND	167									
Benzo(a)pyrene	ND	33.3									
Benzo(b)fluoranthene	ND	33.3									
Benzo(g,h,i)perylene	ND	33.3									
Benzo(k)fluoranthene	ND	33.3									
Benzoic Acid	ND	667									
Benzyl Alcohol	ND	33.3									
Benzyl butyl phthalate	ND	33.3									
Bis(2-chloroethoxy)methane	ND	33.3									
Bis(2-chloroethyl)ether	ND	33.3									
Bis(2-chloroisopropyl)ether	ND	33.3									
Bis(2-ethylhexyl)phthalate	ND	33.3									
Carbazole	ND	33.3									
Chrysene	ND	33.3									
Di-n-butyl phthalate	ND	50.0									
Di-n-octyl phthalate	ND	33.3									
Dibenz(a,h)anthracene	ND	33.3									
Dibenzofuran	ND	33.3									
Diethyl phthalate	ND	33.3									
Dimethyl phthalate	ND	33.3									
Fluoranthene	ND	33.3									
Fluorene	ND	33.3									
Hexachlorobenzene	ND	33.3									
Hexachlorobutadiene	ND	33.3									
Hexachlorocyclopentadiene	ND	33.3									
Hexachloroethane	ND	33.3									
Indeno(1,2,3-cd)pyrene	ND	33.3									
Isophorone	ND	33.3									
N-Nitrosodi-n-propylamine	ND	33.3									
N-Nitrosodimethylamine	ND	33.3									

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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270LL_S

Sample ID: MB-29477	SampType: MBLK	TestCode: 8270LL_S	Units: µg/Kg	Prep Date: 9/20/2011	Run ID: 5973G_110922A						
Client ID: ZZZZZ	Batch ID: 29477	TestNo: SW8270D		Analysis Date: 9/22/2011	SeqNo: 778734						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
N-Nitrosodiphenylamine	ND	33.3									
Naphthalene	ND	33.3									
Nitrobenzene	ND	33.3									
Pentachlorophenol	ND	50.0									
Phenanthrene	ND	33.3									
Phenol	ND	33.3									
Pyrene	ND	33.3									
Pyridine	ND	167									
Surr: 2,4,6-Tribromophenol	1502	0	3333	0	45.1	57.8	119	0	0		S
Surr: 2-Fluorobiphenyl	2149	0	3333	0	64.5	52.6	93.2	0	0		
Surr: 2-Fluorophenol	1685	0	3333	0	50.6	40.7	111	0	0		
Surr: 4-Terphenyl-d14	3038	0	3333	0	91.2	49.8	118	0	0		
Surr: Nitrobenzene-d5	1772	0	3333	0	53.2	44.8	103	0	0		
Surr: Phenol-d6	1644	0	3333	0	49.3	47.5	117	0	0		

Sample ID: LCS-29477	SampType: LCS	TestCode: 8270LL_S	Units: µg/Kg	Prep Date: 9/20/2011	Run ID: 5973G_110922A						
Client ID: ZZZZZ	Batch ID: 29477	TestNo: SW8270D		Analysis Date: 9/22/2011	SeqNo: 778735						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1309	33.3	1667	0	78.6	30.9	106	0	0		
1,4-Dichlorobenzene	1347	33.3	1667	0	80.8	31.4	98.2	0	0		
2,4-Dinitrotoluene	1568	33.3	1667	0	94.1	59.7	111	0	0		
2-Chlorophenol	1391	33.3	1667	0	83.4	46.2	105	0	0		
4-Chloro-3-methylphenol	1370	33.3	1667	0	82.2	47.4	114	0	0		
4-Nitrophenol	1112	167	1667	0	66.7	45.3	114	0	0		
Acenaphthene	1270	33.3	1667	0	76.2	48.2	105	0	0		
N-Nitrosodi-n-propylamine	1354	33.3	1667	0	81.2	42.4	101	0	0		
Pentachlorophenol	1172	50.0	1667	0	70.3	46.8	120	0	0		
Phenol	1387	33.3	1667	0	83.2	51.1	103	0	0		
Pyrene	1151	33.3	1667	0	69.1	56.7	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270LL_S

Sample ID: 1109060-03AMS	SampType: MS	TestCode: 8270LL_S	Units: µg/Kg-dry	Prep Date: 9/20/2011	Run ID: 5973G_110922A						
Client ID: Sed-03	Batch ID: 29477	TestNo: SW8270D		Analysis Date: 9/22/2011	SeqNo: 778736						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trichlorobenzene	1899	55.1	2759	0	68.8	31.1	92.7	0	0		
1,4-Dichlorobenzene	1808	55.1	2759	0	65.5	16.5	85.6	0	0		
2,4-Dinitrotoluene	2262	55.1	2759	0	82	43.4	118	0	0		
2-Chlorophenol	1804	55.1	2759	0	65.4	36.8	103	0	0		
4-Chloro-3-methylphenol	1897	55.1	2759	0	68.8	49.5	119	0	0		
4-Nitrophenol	1456	276	2759	0	52.8	45	111	0	0		
Acenaphthene	1965	55.1	2759	0	71.2	45.1	102	0	0		
N-Nitrosodi-n-propylamine	1842	55.1	2759	0	66.8	45.6	94.1	0	0		
Pentachlorophenol	1387	82.8	2759	0	50.3	36.6	112	0	0		
Phenol	1783	55.1	2759	0	64.6	37.7	107	0	0		
Pyrene	1897	55.1	2759	0	68.8	42.4	131	0	0		

Sample ID: 1109060-03AMSD	SampType: MSD	TestCode: 8270LL_S	Units: µg/Kg-dry	Prep Date: 9/20/2011	Run ID: 5973G_110922A						
Client ID: Sed-03	Batch ID: 29477	TestNo: SW8270D		Analysis Date: 9/22/2011	SeqNo: 778737						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trichlorobenzene	2182	55.1	2759	0	79.1	31.1	92.7	1899	13.9	20	
1,4-Dichlorobenzene	2176	55.1	2759	0	78.9	16.5	85.6	1808	18.4	20	
2,4-Dinitrotoluene	2518	55.1	2759	0	91.2	43.4	118	2262	10.7	20	
2-Chlorophenol	2164	55.1	2759	0	78.4	36.8	103	1804	18.1	20	
4-Chloro-3-methylphenol	2003	55.1	2759	0	72.6	49.5	119	1897	5.43	20	
4-Nitrophenol	1817	276	2759	0	65.8	45	111	1456	22.0	20	R
Acenaphthene	2174	55.1	2759	0	78.8	45.1	102	1965	10.1	20	
N-Nitrosodi-n-propylamine	2318	55.1	2759	0	84	45.6	94.1	1842	22.9	20	R
Pentachlorophenol	1667	82.8	2759	0	60.4	36.6	112	1387	18.3	20	
Phenol	2170	55.1	2759	0	78.6	37.7	107	1783	19.6	20	
Pyrene	1881	55.1	2759	0	68.2	42.4	131	1897	0.876	20	

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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270LL_S

Sample ID: CCV-29477	SampType: CCV	TestCode: 8270LL_S	Units: µg/Kg	Prep Date:	Run ID: 5973G_110922A						
Client ID: ZZZZZ	Batch ID: 29477	TestNo: SW8270D		Analysis Date: 9/22/2011	SeqNo: 778733						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	1566	33.3	1333	0	117	80	120	0	0		
2,4,6-Trichlorophenol	1289	33.3	1333	0	96.7	80	120	0	0		
2,4-Dichlorophenol	1297	33.3	1333	0	97.3	80	120	0	0		
2-Nitrophenol	1353	167	1333	0	101	80	120	0	0		
3-&4-Methylphenol	1536	33.3	0	0	0	0	0	0	0		
4-Chloro-3-methylphenol	1243	33.3	1333	0	93.2	80	120	0	0		
Acenaphthene	1159	33.3	1333	0	86.9	80	120	0	0		
Benzo(a)pyrene	1423	33.3	1333	0	107	80	120	0	0		
Di-n-octyl phthalate	1403	33.3	1333	0	105	80	120	0	0		
Fluoranthene	1118	33.3	1333	0	83.9	80	120	0	0		
Hexachlorobutadiene	1387	33.3	1333	0	104	80	120	0	0		
N-Nitrosodiphenylamine	1123	33.3	1333	0	84.2	80	120	0	0		
Pentachlorophenol	1265	50.0	1333	0	94.9	80	120	0	0		
Phenol	1510	33.3	1333	0	113	80	120	0	0		

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CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: MB-29399	SampType: MBLK	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: CVAA_110912B
Client ID: ZZZZZ	Batch ID: 29399	TestNo: SW7471		Analysis Date: 9/12/2011	SeqNo: 776057
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury ND 0.0167

Sample ID: LCS-29399	SampType: LCS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: CVAA_110912B
Client ID: ZZZZZ	Batch ID: 29399	TestNo: SW7471		Analysis Date: 9/12/2011	SeqNo: 776056
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.272 0.0167 0.25 0 109 88.2 113 0 0

Sample ID: 1109076-02AMS	SampType: MS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: CVAA_110912B
Client ID: ZZZZZ	Batch ID: 29399	TestNo: SW7471		Analysis Date: 9/12/2011	SeqNo: 776053
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.1629 0.00737 0.1103 0.09887 58.1 78.1 125 0 0 S,MI

Sample ID: 1109076-02AMSD	SampType: MSD	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: CVAA_110912B
Client ID: ZZZZZ	Batch ID: 29399	TestNo: SW7471		Analysis Date: 9/12/2011	SeqNo: 776054
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.1741 0.00783 0.1172 0.09887 64.2 78.1 125 0.1629 6.62 20 S,MI

Sample ID: 1109076-02ADUP	SampType: DUP	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: CVAA_110912B
Client ID: ZZZZZ	Batch ID: 29399	TestNo: SW7471		Analysis Date: 9/12/2011	SeqNo: 776052
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.05723 0.00783 0 0 0 0 0 0.09887 53.4 20 R,MI

Sample ID: CCV-29399	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_110912B
Client ID: ZZZZZ	Batch ID: 29399	TestNo: SW7471		Analysis Date: 9/12/2011	SeqNo: 776055
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: CCV-29399	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_110912B						
Client ID: ZZZZZ	Batch ID: 29399	TestNo: SW7471		Analysis Date: 9/12/2011	SeqNo: 776055						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2602	0.0167	0.25	0	104	90	110	0	0		

Sample ID: CCV-29399	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_110912B						
Client ID: ZZZZZ	Batch ID: 29399	TestNo: SW7471		Analysis Date: 9/12/2011	SeqNo: 776066						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2562	0.0167	0.25	0	102	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: MB-29407	SampType: MBLK	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: GC-M_110913A						
Client ID: ZZZZZ	Batch ID: 29407	TestNo: NWTPH-Dx		Analysis Date: 9/13/2011	SeqNo: 776399						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	32.22	0	33.33	0	96.7	50	150	0	0		

Sample ID: LCS-29407	SampType: LCS	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: GC-M_110913A						
Client ID: ZZZZZ	Batch ID: 29407	TestNo: NWTPH-Dx		Analysis Date: 9/13/2011	SeqNo: 776400						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	181.6	15.0	166.6	0	109	76.3	125	0	0		
Lube Oil	188.8	50.0	166.6	0	113	69.9	127	0	0		

Sample ID: 1109056-01ADUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 9/12/2011	Run ID: GC-M_110913A						
Client ID: ZZZZZ	Batch ID: 29407	TestNo: NWTPH-Dx		Analysis Date: 9/13/2011	SeqNo: 776402						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	2022	16.4	0	0	0	0	0	1969	2.66	20	
Lube Oil	71.52	54.6	0	0	0	0	0	79.15	10.1	20	M

Sample ID: 1109045-07ADUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 9/12/2011	Run ID: GC-M_110913A						
Client ID: ZZZZZ	Batch ID: 29407	TestNo: NWTPH-Dx		Analysis Date: 9/13/2011	SeqNo: 776483						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	117.5	24.8	0	0	0	0	0	186.5	45.4	20	R,M,I,A1
Lube Oil	764.2	82.6	0	0	0	0	0	1139	39.4	20	R,M,I,A2

Sample ID: CCB	SampType: CCB	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: GC-M_110913A						
Client ID: ZZZZZ	Batch ID: 29407	TestNo: NWTPH-Dx		Analysis Date: 9/14/2011	SeqNo: 776705						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0	0	0	0	0	0	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: CCB		SampType: CCB		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date: 9/12/2011		Run ID: GC-M_110913A	
Client ID: ZZZZZ		Batch ID: 29407		TestNo: NWTPH-Dx				Analysis Date: 9/14/2011		SeqNo: 776705	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lube Oil	4.553	50.0	0	0	0	0	0	0	0		
Surr: o-Terphenyl	32.69	0	33.33	0	98.1	50	150	0	0		

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_110913A	
Client ID: ZZZZZ		Batch ID: 29407		TestNo: NWTPH-Dx				Analysis Date: 9/13/2011		SeqNo: 776398	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1052	15.0	1009	0	104	85	115	0	0		
Lube Oil	586.3	50.0	524.9	0	112	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_110913A						
Client ID: ZZZZZ	Batch ID: 29407	TestNo: NWTPH-Dx	Analysis Date: 9/13/2011	SeqNo: 776412							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1368	15.0	1346	0	102	85	115	0	0		
Lube Oil	740.4	50.0	699.9	0	106	85	115	0	0		

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_110913A	
Client ID: ZZZZZ		Batch ID: 29407		TestNo: NWTPH-Dx				Analysis Date: 9/13/2011		SeqNo: 776492	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1005	15.0	1009	0	99.6	85	115	0	0		
Lube Oil	544.2	50.0	524.9	0	104	85	115	0	0		

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_110913A	
Client ID: ZZZZZ		Batch ID: 29407		TestNo: NWTPH-Dx				Analysis Date: 9/14/2011		SeqNo: 776703	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1046	15.0	1009	0	104	85	115	0	0		
Lube Oil	548.1	50.0	524.9	0	104	85	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S Units: mg/Kg				Prep Date:			Run ID: GC-M_110913A		
Client ID: ZZZZZ	Batch ID: 29407	TestNo: NWTPH-Dx				Analysis Date: 9/14/2011			SeqNo: 776707		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1054	15.0	1009	0	104	85	115	0	0		
Lube Oil	556.7	50.0	524.9	0	106	85	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: MB-29392	SampType: MBLK	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 9/9/2011	Run ID: 5975Q_110914B						
Client ID: ZZZZZ	Batch ID: 29392	TestNo: 8270SIM		Analysis Date: 9/14/2011	SeqNo: 776886						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Anthracene
Benz(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Chrysene
Dibenz(a,h)anthracene
Fluoranthene
Fluorene
Indeno(1,2,3-cd)pyrene
Naphthalene
Phenanthrene
Pyrene

ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
ND

6.67
6.67
6.67
6.67
6.67
6.67
6.67
6.67
6.67
6.67
6.67
6.67
6.67
6.67
6.67
6.67
6.67
6.67

Surr: 2-Fluorobiphenyl
Surr: Nitrobenzene-d5
Surr: p-Terphenyl-d14

5309
4649
6413

0
0
0

6667
6667
6667

0
0
0

79.6
69.7
96.2

42.6
21.7
44.9

128
155
155

0
0
0

0
0
0

Sample ID: LCS-29392	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 9/9/2011	Run ID: 5975Q_110914B						
Client ID: ZZZZZ	Batch ID: 29392	TestNo: 8270SIM		Analysis Date: 9/15/2011	SeqNo: 776899						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene
Benzo(g,h,i)perylene
Chrysene
Naphthalene
Phenanthrene

237.3
250
286
210.7
310

6.67
6.67
6.67
6.67
6.67

333.3
333.3
333.3
333.3
333.3

0
0
0
0
0

71.2
75
85.8
63.2
93

39.6
49.7
57.1
29.1
48.4

107
135
130
109
115

0
0
0
0
0

0
0
0
0
0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: LCS-29392	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 9/9/2011	Run ID: 5975Q_110914B						
Client ID: ZZZZZ	Batch ID: 29392	TestNo: 8270SIM		Analysis Date: 9/15/2011	SeqNo: 776899						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Pyrene	282.7	6.67	333.3	0	84.8	47.2	134	0	0		
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Sample ID: 1109062-07AMS	SampType: MS	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 9/9/2011	Run ID: 5975Q_110914B						
Client ID: ZZZZZ	Batch ID: 29392	TestNo: 8270SIM		Analysis Date: 9/15/2011	SeqNo: 776900						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	307.8	8.82	440.9	1.764	69.4	33.7	111	0	0		
Benzo(g,h,i)perylene	301.6	8.82	440.9	15.87	64.8	15	128	0	0		
Chrysene	353.6	8.82	440.9	14.11	77	37.5	125	0	0		
Naphthalene	240.7	8.82	440.9	7.937	52.8	27.7	108	0	0		
Phenanthrene	421.5	8.82	440.9	29.98	88.8	20.2	139	0	0		
Pyrene	362.4	8.82	440.9	32.63	74.8	26.8	142	0	0		

Sample ID: 1109062-07AMSD	SampType: MSD	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 9/9/2011	Run ID: 5975Q_110914B						
Client ID: ZZZZZ	Batch ID: 29392	TestNo: 8270SIM		Analysis Date: 9/15/2011	SeqNo: 776901						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	323.6	8.82	440.9	1.764	73	33.7	111	307.8	5.03	20	
Benzo(g,h,i)perylene	364.2	8.82	440.9	15.87	79	15	128	301.6	18.8	20	
Chrysene	380.1	8.82	440.9	14.11	83	37.5	125	353.6	7.21	20	
Naphthalene	252.2	8.82	440.9	7.937	55.4	27.7	108	240.7	4.65	20	
Phenanthrene	451.5	8.82	440.9	29.98	95.6	20.2	139	421.5	6.87	20	
Pyrene	395.1	8.82	440.9	32.63	82.2	26.8	142	362.4	8.61	20	

Sample ID: CCB-29392	SampType: CCB	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5975Q_110914B						
Client ID: ZZZZZ	Batch ID: 29392	TestNo: 8270SIM		Analysis Date: 9/15/2011	SeqNo: 777216						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	ND	6.67	0	0	0	0	0	0	0		
2-Methylnaphthalene	ND	6.67	0	0	0	0	0	0	0		
Acenaphthene	ND	6.67	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCB-29392		SampType: CCB		TestCode: PAHLL_S		Units: µg/Kg		Prep Date:		Run ID: 5975Q_110914B			
Client ID: ZZZZZ		Batch ID: 29392		TestNo: 8270SIM				Analysis Date: 9/15/2011		SeqNo: 777216			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthylene	ND	6.67	0	0	0	0	0	0	0		
Anthracene	ND	6.67	0	0	0	0	0	0	0		
Benz(a)anthracene	ND	6.67	0	0	0	0	0	0	0		
Benzo(a)pyrene	ND	6.67	0	0	0	0	0	0	0		
Benzo(b)fluoranthene	ND	6.67	0	0	0	0	0	0	0		
Benzo(g,h,i)perylene	ND	6.67	0	0	0	0	0	0	0		
Benzo(k)fluoranthene	ND	6.67	0	0	0	0	0	0	0		
Chrysene	ND	6.67	0	0	0	0	0	0	0		
Dibenz(a,h)anthracene	ND	6.67	0	0	0	0	0	0	0		
Fluoranthene	ND	6.67	0	0	0	0	0	0	0		
Fluorene	ND	6.67	0	0	0	0	0	0	0		
Indeno(1,2,3-cd)pyrene	ND	6.67	0	0	0	0	0	0	0		
Naphthalene	2	6.67	0	0	0	0	0	0	0		
Phenanthrene	ND	6.67	0	0	0	0	0	0	0		
Pyrene	2	6.67	0	0	0	0	0	0	0		
Surr: 2-Fluorobiphenyl	5199	0	6667	0	78	42.6	128	0	0		
Surr: Nitrobenzene-d5	4914	0	6667	0	73.7	21.7	155	0	0		
Surr: p-Terphenyl-d14	6822	0	6667	0	102	44.9	155	0	0		

Sample ID: CCB-29392		SampType: CCB	TestCode: PAHLL_S		Units: µg/Kg		Prep Date:			Run ID: 5975Q_110914B		
Client ID: ZZZZZ		Batch ID: 29392		TestNo: 8270SIM			Analysis Date: 9/17/2011			SeqNo: 777442		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

1-Methylnaphthalene	ND	6.67	0	0	0	0	0	0	0		
2-Methylnaphthalene	ND	6.67	0	0	0	0	0	0	0		
Acenaphthene	ND	6.67	0	0	0	0	0	0	0		
Acenaphthylene	ND	6.67	0	0	0	0	0	0	0		
Anthracene	ND	6.67	0	0	0	0	0	0	0		
Benz(a)anthracene	3.333	6.67	0	0	0	0	0	0	0		
Benzo(a)pyrene	3.333	6.67	0	0	0	0	0	0	0		
Benzo(b)fluoranthene	4	6.67	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCB-29392	SampType: CCB	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5975Q_110914B						
Client ID: ZZZZZ	Batch ID: 29392	TestNo: 8270SIM		Analysis Date: 9/17/2011	SeqNo: 777442						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(g,h,i)perylene	2.667	6.67	0	0	0	0	0	0	0		
Benzo(k)fluoranthene	4	6.67	0	0	0	0	0	0	0		
Chrysene	2.667	6.67	0	0	0	0	0	0	0		
Dibenz(a,h)anthracene	2	6.67	0	0	0	0	0	0	0		
Fluoranthene	ND	6.67	0	0	0	0	0	0	0		
Fluorene	ND	6.67	0	0	0	0	0	0	0		
Indeno(1,2,3-cd)pyrene	2.667	6.67	0	0	0	0	0	0	0		
Naphthalene	0.6667	6.67	0	0	0	0	0	0	0		
Phenanthrene	0.6667	6.67	0	0	0	0	0	0	0		
Pyrene	0.6667	6.67	0	0	0	0	0	0	0		
Surr: 2-Fluorobiphenyl	3989	0	6667	0	59.8	42.6	128	0	0		
Surr: Nitrobenzene-d5	3741	0	6667	0	56.1	21.7	155	0	0		
Surr: p-Terphenyl-d14	5579	0	6667	0	83.7	44.9	155	0	0		

Sample ID: CCV-29392	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:				Run ID: 5975Q_110914B			
Client ID: ZZZZZ	Batch ID: 29392	TestNo: 8270SIM			Analysis Date: 9/14/2011				SeqNo: 776885		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	316	6.67	333.3	0	94.8	70	130	0	0		
2-Methylnaphthalene	327.3	6.67	333.3	0	98.2	70	130	0	0		
Acenaphthene	328.7	6.67	333.3	0	98.6	70	130	0	0		
Acenaphthylene	320	6.67	333.3	0	96	70	130	0	0		
Anthracene	321.3	6.67	333.3	0	96.4	70	130	0	0		
Benz(a)anthracene	298	6.67	333.3	0	89.4	70	130	0	0		
Benzo(a)pyrene	356	6.67	333.3	0	107	70	130	0	0		
Benzo(b)fluoranthene	343.3	6.67	333.3	0	103	70	130	0	0		
Benzo(g,h,i)perylene	348.7	6.67	333.3	0	105	70	130	0	0		
Benzo(k)fluoranthene	351.3	6.67	333.3	0	105	70	130	0	0		
Chrysene	322	6.67	333.3	0	96.6	70	130	0	0		
Dibenz(a,h)anthracene	339.3	6.67	333.3	0	102	70	130	0	0		
Fluoranthene	316	6.67	333.3	0	94.8	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCV-29392	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5975Q_110914B						
Client ID: ZZZZZ	Batch ID: 29392	TestNo: 8270SIM		Analysis Date: 9/14/2011	SeqNo: 776885						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluorene	318	6.67	333.3	0	95.4	70	130	0	0		
Indeno(1,2,3-cd)pyrene	362.7	6.67	333.3	0	109	70	130	0	0		
Naphthalene	310	6.67	333.3	0	93	70	130	0	0		
Phenanthrene	396	6.67	333.3	0	119	70	130	0	0		
Pyrene	323.3	6.67	333.3	0	97	70	130	0	0		

Sample ID: CCV-29392	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5975Q_110914B						
Client ID: ZZZZZ	Batch ID: 29392	TestNo: 8270SIM		Analysis Date: 9/15/2011	SeqNo: 777215						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	122.7	6.67	133.3	0	92	70	130	0	0		
2-Methylnaphthalene	126	6.67	133.3	0	94.5	70	130	0	0		
Acenaphthene	130	6.67	133.3	0	97.5	70	130	0	0		
Acenaphthylene	136.7	6.67	133.3	0	102	70	130	0	0		
Anthracene	130.7	6.67	133.3	0	98	70	130	0	0		
Benz(a)anthracene	118	6.67	133.3	0	88.5	70	130	0	0		
Benzo(a)pyrene	133.3	6.67	133.3	0	100	70	130	0	0		
Benzo(b)fluoranthene	124.7	6.67	133.3	0	93.5	70	130	0	0		
Benzo(g,h,i)perylene	121.3	6.67	133.3	0	91	70	130	0	0		
Benzo(k)fluoranthene	128.7	6.67	133.3	0	96.5	70	130	0	0		
Chrysene	127.3	6.67	133.3	0	95.5	70	130	0	0		
Dibenz(a,h)anthracene	126.7	6.67	133.3	0	95	70	130	0	0		
Fluoranthene	120.7	6.67	133.3	0	90.5	70	130	0	0		
Fluorene	135.3	6.67	133.3	0	101	70	130	0	0		
Indeno(1,2,3-cd)pyrene	133.3	6.67	133.3	0	100	70	130	0	0		
Naphthalene	122	6.67	133.3	0	91.5	70	130	0	0		
Phenanthrene	146	6.67	133.3	0	109	70	130	0	0		
Pyrene	144.7	6.67	133.3	0	108	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCV-29392	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:				Run ID: 5975Q_110914B			
Client ID: ZZZZZ	Batch ID: 29392	TestNo: 8270SIM		Analysis Date: 9/17/2011				SeqNo: 777441			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	356.7	6.67	333.3	0	107	70	130	0	0		
2-Methylnaphthalene	358	6.67	333.3	0	107	70	130	0	0		
Acenaphthene	360.7	6.67	333.3	0	108	70	130	0	0		
Acenaphthylene	371.3	6.67	333.3	0	111	70	130	0	0		
Anthracene	372	6.67	333.3	0	112	70	130	0	0		
Benz(a)anthracene	334.7	6.67	333.3	0	100	70	130	0	0		
Benzo(a)pyrene	389.3	6.67	333.3	0	117	70	130	0	0		
Benzo(b)fluoranthene	386	6.67	333.3	0	116	70	130	0	0		
Benzo(g,h,i)perylene	342	6.67	333.3	0	103	70	130	0	0		
Benzo(k)fluoranthene	406	6.67	333.3	0	122	70	130	0	0		
Chrysene	358	6.67	333.3	0	107	70	130	0	0		
Dibenz(a,h)anthracene	359.3	6.67	333.3	0	108	70	130	0	0		
Fluoranthene	362.7	6.67	333.3	0	109	70	130	0	0		
Fluorene	380.7	6.67	333.3	0	114	70	130	0	0		
Indeno(1,2,3-cd)pyrene	376.7	6.67	333.3	0	113	70	130	0	0		
Naphthalene	348	6.67	333.3	0	104	70	130	0	0		
Phenanthrene	393.3	6.67	333.3	0	118	70	130	0	0		
Pyrene	377.3	6.67	333.3	0	113	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: SOLIDS_%

Sample ID: 1109060-04ADUP	SampType: DUP	TestCode: SOLIDS_%	Units: wt%	Prep Date:					Run ID: WETCHEM_110909C		
Client ID: Sed-04	Batch ID: R68875	TestNo: A2216			Analysis Date: 9/9/2011					SeqNo: 775672	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	57	0.100	0	0	0	0	0	57.3	0.525	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109060
Project: Port of Camas / 0229.04.01

ANALYTICAL QC SUMMARY REPORT

TestCode: TOC_S

Sample ID: MBLK	SampType: MBLK	TestCode: TOC_S	Units: mg/Kg-dry	Prep Date:	Run ID: TOC-APOLLO_110915A
Client ID: ZZZZZ	Batch ID: R68992	TestNo: SW9060		Analysis Date: 9/15/2011	SeqNo: 777101
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Organic Carbon ND 100

Sample ID: LCS	SampType: LCS	TestCode: TOC_S	Units: mg/Kg-dry	Prep Date:	Run ID: TOC-APOLLO_110915A
Client ID: ZZZZZ	Batch ID: R68992	TestNo: SW9060		Analysis Date: 9/15/2011	SeqNo: 777100
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Organic Carbon 2338 100 2073 0 113 80 120 0 0

Sample ID: 1109060-04ADUP	SampType: DUP	TestCode: TOC_S	Units: mg/Kg-dry	Prep Date:	Run ID: TOC-APOLLO_110915A
Client ID: Sed-04	Batch ID: R68992	TestNo: SW9060		Analysis Date: 9/15/2011	SeqNo: 777106
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Organic Carbon 5307 100 0 0 0 0 0 5095 4.07 20

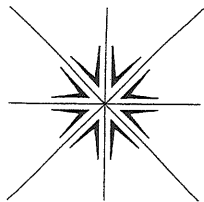
Sample ID: CCV	SampType: CCV	TestCode: TOC_S	Units: mg/Kg-dry	Prep Date:	Run ID: TOC-APOLLO_110915A
Client ID: ZZZZZ	Batch ID: R68992	TestNo: SW9060		Analysis Date: 9/15/2011	SeqNo: 777107
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Organic Carbon 2335 100 2073 0 113 80 120 0 0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Page 1 of 1

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Company MFA

Address 2001 NW 19th Ave St 200
Portland OR 97209

Phone _____ Fax _____

Project No. _____ Project Name _____

Project Site Location OR WA ~~Other~~

Invoice To _____ P.O. No. _____

Signature [Signature]

Printed William M. W. W. W.

Signature_____

Printed _____

☒ Normal 5-7 Business Days

☐ Rush _____

Specify

Rush Analyses Must Be Scheduled With The Lab In Advance

[illegible]



Analytical Resources, Incorporated
Analytical Chemists and Consultants

3 October 2011

Nikki Bippes
Specialty Analytical
11711 SE Capps Road
Clackamas, OR 97015

RE: Project: Sample received 09/20/2011
ARI Job No: TN10

Dear Nikki:

Please find enclosed the original chain of custody records and the final results for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted four sediment samples in good condition on September 20, 2011. The samples were analyzed for grain size as requested.

A copy of these reports and all supporting data will remain on file with ARI. Please feel free to contact me if you have any questions or require any additional information.

Respectfully,

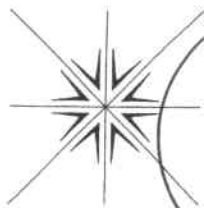
ANALYTICAL RESOURCES, INC.

Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: File TN10

MDH/esj



Specialty Analytical

**11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336**

Contact Person/Project Manager

Nikki Buppel

Company

Address

Please send results via email

Phone

Fax

Project No. _____

Project Name

Project Site Location OR

WA

Other

Invoice To

P.O. No. _____

Collected By:

Signature_____

Printed.

Signature_____

Printed_

Turn Around Time

☐ Normal 5-7 Business Days☐ Rush

Specify

Rush Analyses Must Be Scheduled With The Lab In Advance

Analyses

For Laboratory Use

Lab Job No. _____

Shipped Via

Air Bill No. _____

Temperature On Receipt _____ °C

Specialty Analytical Containers? Y / N

Specialty Analytical Trip Blanks? Y / N

No. of Containers

grain size D422
w/hydrometer

[illegible]

Copies: White-Original

Yellow-Project File

Pink-Customer Copy



Cooler Receipt Form

ARI Client: Specialty Analytical

COC No(s): NA

Assigned ARI Job No: TN10

Project Name: _____

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Tracking No: 750 7952 0210 2080 NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 3.1

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# 90941619

Cooler Accepted by: JM Date: 9/20/11 Time: 1015

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

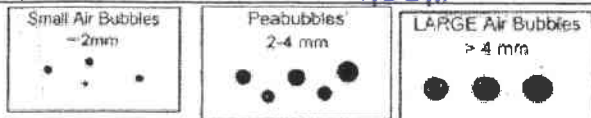
Samples Logged by: AV Date: 9/20/11 Time: 1110

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC
SED-01	1109060-01		
SED-02	1109060-02		
SED-03	1109060-03		
SED-04	1109060-04		

Additional Notes, Discrepancies, & Resolutions:

By: AV Date: 9/20/11



Small → "sm"

Peabubbles → "pb"

Large → "lg"

Headspace → "hs"

Sample ID Cross Reference Report



ARI Job No: TN10
Client: Specialty Analytical
Project Event: N/A
Project Name: N/A

Sample ID	ARI		Matrix	Sample Date/Time	VTSR
	Lab ID	LIMS ID			
1. 1109060-01	TN10A	11-20481	Sediment	09/07/11 12:45	09/20/11 10:15
2. 1109060-02	TN10B	11-20482	Sediment	09/07/11 12:30	09/20/11 10:15
3. 1109060-03	TN10C	11-20483	Sediment	09/07/11 11:45	09/20/11 10:15
4. 1109060-04	TN10D	11-20484	Sediment	09/07/11 11:30	09/20/11 10:15

Printed 09/20/11

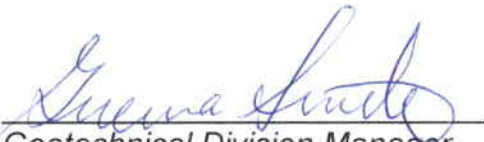


Client: Specialty Analytical

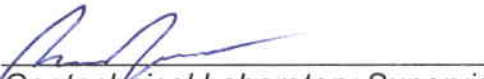
ARI Job No.: TN10

Case Narrative

1. Four samples were submitted for analysis on September 20, 2011, and were in good condition.
2. The samples were submitted for grain size distribution according to ASTM D422. The samples were prepared according to ASTM D421.
3. An assumed specific gravity of 2.65 was used in the hydrometer calculations.
4. A standard milkshake mixer type device was used to disperse the fine fraction sample.
5. One sample from another job was chosen for triplicate analysis. The triplicate data can be found on the QA summary table.
6. The data is provided in summary tables and plots.
7. There were no further anomalies in the samples or test method.

Released by: 
Title: Geotechnical Division Manager

Date: 10/3/11

Reviewed by: 
Title: Geotechnical Laboratory Supervisor

Date: 10-3-2011

Specialty Analytical

Percent Finer (Passing) Than the Indicated Size

Sieve Size (microns)	3"	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4 (4750)	#10 (2000)	#20 (850)	#40 (425)	#60 (250)	#100 (150)	#200 (75)	32	22	13	9	7	3.2	1.3
TK35 S	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	92.2	61.8	22.9	6.9	6.0	4.1	3.7	2.8	1.8	1.4
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	92.2	61.1	21.4	6.9	6.0	4.6	3.7	3.2	1.8	1.4
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	91.8	61.2	23.3	7.8	6.4	4.6	4.6	3.2	1.8	1.4
1109060-01	100.0	100.0	100.0	100.0	97.5	89.4	82.0	72.1	66.8	64.2	52.7	19.8	4.9	1.6	1.2	1.2	1.2	1.2	1.0	0.5	0.5
1109060-02	100.0	100.0	100.0	100.0	100.0	94.4	87.7	77.2	65.9	58.4	52.7	47.3	38.7	18.1	8.4	6.3	5.3	4.2	3.5	1.8	1.4
1109060-03	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.5	98.8	97.8	87.7	49.8	25.0	12.8	9.6	8.0	6.4	4.3	3.2
1109060-04	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.2	98.4	97.4	93.0	73.9	43.4	34.0	22.0	17.0	13.2	8.2	5.5

Testing performed according to ASTM D421/D422

Specialty Analytical

Percent Retained in Each Size Fraction

Description	%Coarse Gravel				% Gravel			% Coarse Sand	% Medium Sand		% Fine Sand			% Very Coarse Silt	% Coarse Silt	% Medium Silt	% Fine Silt	% Fine Silt	% Very Fine Silt	% Clay
Particle Size (microns)	3-2"	2-1 1/2"	1 1/2"-1"	1-3/4"	3/4-1/2"	1/2-3/8"	3/8"-4750	4750-2000	2000-850	850-425	425-250	250-150	150-75	75-32	32-22	22-13	13-9	9-7	7-3.2	<3.2
TK35 S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	7.6	30.4	38.8	16.1	0.9	1.8	0.5	0.9	0.9	1.8
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	7.5	31.1	39.7	14.6	0.9	1.4	0.9	0.5	1.4	1.8
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	8.0	30.5	37.9	15.5	1.4	1.8	0.0	1.4	1.4	1.8
1109060-01	0.0	0.0	0.0	2.5	8.1	7.4	9.9	5.3	2.6	11.4	32.9	15.0	3.3	0.4	0.0	0.0	0.0	0.2	0.5	0.5
1109060-02	0.0	0.0	0.0	0.0	5.6	6.6	10.5	11.3	7.5	5.7	5.4	8.6	20.6	9.7	2.1	1.1	1.1	0.7	1.8	1.8
1109060-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	1.0	10.1	37.8	24.8	12.2	3.2	1.6	1.6	2.1	4.3
1109060-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.8	0.9	4.4	19.1	30.5	9.3	12.1	4.9	3.8	4.9	8.2

Client:Specialty Analytical

ARI Triplicate Sample ID:TK35 S

Batch No.:TN10-01

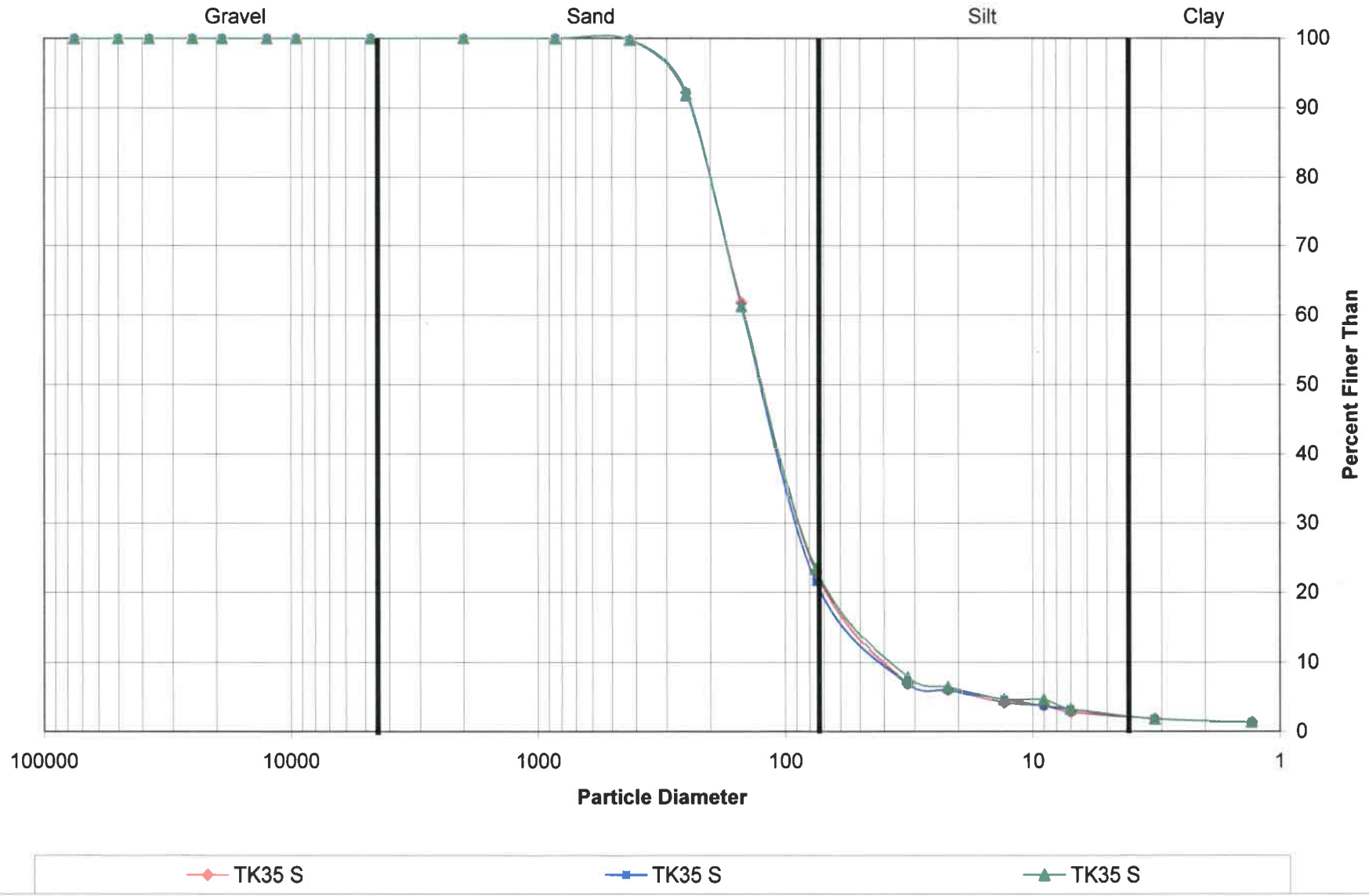
Page:1 of 1

Relative Standard Deviation, By Size																					
Sample ID	75000	50000	37500	25000	19000	12500	9500	4750	2000	850	425	250	150	75	32	22	13	9	7	3.2	1.3
TK35 S	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	92.2	61.8	22.9	6.9	6.0	4.1	3.7	2.8	1.8	1.4
TK35 S	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	92.2	61.1	21.4	6.9	6.0	4.6	3.7	3.2	1.8	1.4
TK35 S	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	91.8	61.2	23.3	7.8	6.4	4.6	4.6	3.2	1.8	1.4
AVE	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.99	99.77	92.06	61.37	22.57	7.20	6.13	4.44	3.98	3.06	1.84	1.38
STDEV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.24	0.34	1.00	0.54	0.27	0.26	0.54	0.26	0.00	0.00
%RSD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.26	0.56	4.44	7.49	4.45	5.90	13.45	8.59	0.19	0.19

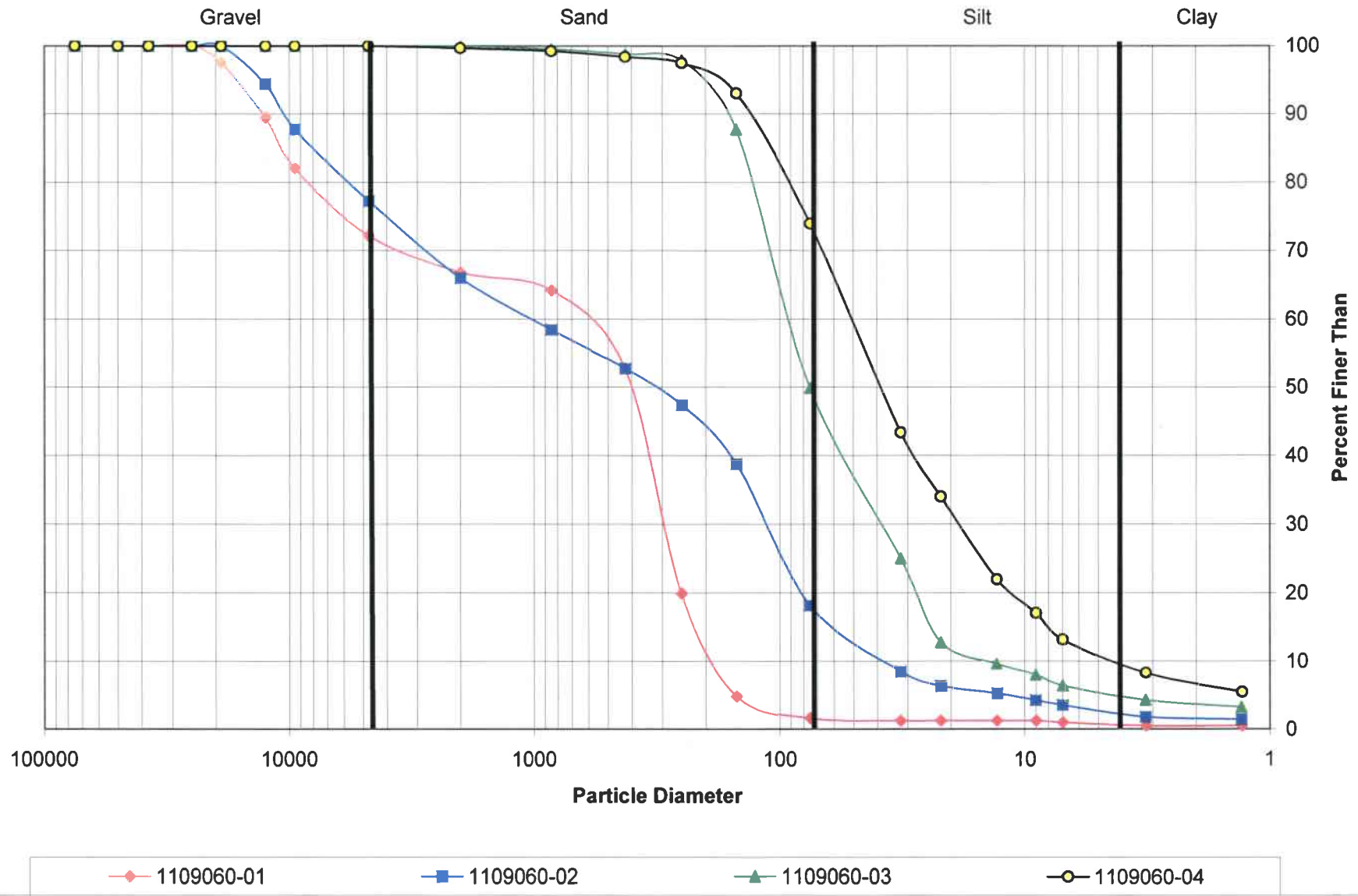
This Triplicate applies to the Batch Containing the Following Samples

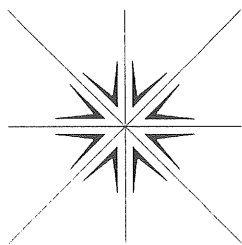
Sample ID	Date Sampled	Date Set up	Date Started	Date Complete	Data Qualifiers
TK35 S	8/29/2011	9/1/2011	9/6/2011	9/8/2011	
	8/29/2011	9/1/2011	9/6/2011	9/8/2011	
	8/29/2011	9/1/2011	9/6/2011	9/8/2011	
1109060-01	9/7/2011	9/21/2011	9/29/2011	10/3/2011	
1109060-02	9/7/2011	9/21/2011	9/29/2011	10/3/2011	
1109060-03	9/7/2011	9/21/2011	9/29/2011	10/3/2011	
1109060-04	9/7/2011	9/21/2011	9/29/2011	10/3/2011	

Grain Size Distribution by Hydrometer



Grain Size Distribution by Hydrometer





Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
(503) 607-1331
Fax (503) 607-1336

September 22, 2011

Christina Johnson
Maul, Foster & Alongi
7223 NE Hazel Dell Avenue
Suite B
Vancouver, WA 98665

TEL: (360) 694-2691

FAX: (360) 906-1958

RE: Port of Camas / 0229.04.03

Dear Christina Johnson:

Order No.: 1109062

Specialty Analytical received 36 samples on 9/8/2011 for the analyses presented in the following report.

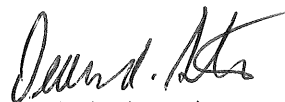
There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,


Cindy Ellyard

Project Manager


Technical Review

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Project: Port of Camas / 0229.04.03
Lab Order: 1109062

CASE NARRATIVE

The Laboratory Control Sample recovery of 1,1-Dichloroethene for Volatile Organic Compounds by EPA 8260B was outside laboratory control limits (high). All associated samples were non-detect for this compound.

Specialty Analytical Sample No.'s 1109062-13, -14, -18, and -19 were analyzed for PCB Aroclor's by EPA 8082. The samples contain Aroclor 1260 plus additional peaks that appear to be from a different Aroclor, but are unidentifiable. Additional analysis may be required to identify and quantify these compounds.

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-01

Client Sample ID: SS-5-1
Collection Date: 9/7/2011 8:10:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrj
Diesel	ND	20.0		mg/Kg-dry	1	9/13/2011
Lube Oil	ND	66.7		mg/Kg-dry	1	9/13/2011
Surr: o-Terphenyl	90.8	50-150		%REC	1	9/13/2011
TOTAL METALS BY ICP		E6010				Analyst: zau
Arsenic	4.93	2.30		mg/Kg-dry	1	9/9/2011 5:31:36 PM
Barium	214	1.15		mg/Kg-dry	1	9/9/2011 5:31:36 PM
Cadmium	ND	0.115		mg/Kg-dry	1	9/9/2011 5:31:36 PM
Chromium	17.7	0.575		mg/Kg-dry	1	9/9/2011 5:31:36 PM
Lead	3.20	2.30		mg/Kg-dry	1	9/9/2011 5:31:36 PM
Selenium	ND	2.30		mg/Kg-dry	1	9/9/2011 5:31:36 PM
Silver	ND	2.30		mg/Kg-dry	1	9/9/2011 5:31:36 PM
MERCURY, TOTAL		SW7471				Analyst: eh
Mercury	0.232	0.0108		mg/Kg-dry	1	9/12/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-02

Client Sample ID: SS-6-1
Collection Date: 9/7/2011 8:25:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrj
Diesel	ND	18.5		mg/Kg-dry	1	9/13/2011
Lube Oil	ND	61.6		mg/Kg-dry	1	9/13/2011
Surr: o-Terphenyl	91.0	50-150		%REC	1	9/13/2011
TOTAL METALS BY ICP		E6010				Analyst: zau
Arsenic	4.55	1.76		mg/Kg-dry	1	9/9/2011 5:36:32 PM
Barium	166	0.880		mg/Kg-dry	1	9/9/2011 5:36:32 PM
Cadmium	ND	0.0880		mg/Kg-dry	1	9/9/2011 5:36:32 PM
Chromium	17.6	0.440		mg/Kg-dry	1	9/9/2011 5:36:32 PM
Lead	ND	1.76		mg/Kg-dry	1	9/9/2011 5:36:32 PM
Selenium	ND	1.76		mg/Kg-dry	1	9/9/2011 5:36:32 PM
Silver	1.84	1.76		mg/Kg-dry	1	9/9/2011 5:36:32 PM
MERCURY, TOTAL		SW7471				Analyst: eh
Mercury	0.0181	0.0114		mg/Kg-dry	1	9/12/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-03

Client Sample ID: SS-8-1
Collection Date: 9/7/2011 8:30:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX						
		NWTPH-DX				Analyst: jrj
Diesel	ND	17.7		mg/Kg-dry	1	9/13/2011
Lube Oil	ND	59.0		mg/Kg-dry	1	9/13/2011
Surr: o-Terphenyl	94.8	50-150		%REC	1	9/13/2011
TOTAL METALS BY ICP						
		E6010				Analyst: zau
Arsenic	3.75	1.64		mg/Kg-dry	1	9/9/2011 5:41:29 PM
Barium	180	0.819		mg/Kg-dry	1	9/9/2011 5:41:29 PM
Cadmium	ND	0.0819		mg/Kg-dry	1	9/9/2011 5:41:29 PM
Chromium	16.4	0.409		mg/Kg-dry	1	9/9/2011 5:41:29 PM
Lead	2.68	1.64		mg/Kg-dry	1	9/9/2011 5:41:29 PM
Selenium	ND	1.64		mg/Kg-dry	1	9/9/2011 5:41:29 PM
Silver	ND	1.64		mg/Kg-dry	1	9/9/2011 5:41:29 PM
MERCURY, TOTAL						
		SW7471				Analyst: eh
Mercury	0.0247	0.0114		mg/Kg-dry	1	9/12/2011
VOLATILES BY GC/MS						
		SW8260B				Analyst: rkj
1,1,1,2-Tetrachloroethane	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
1,1,1-Trichloroethane	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
1,1,2,2-Tetrachloroethane	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
1,1,2-Trichloroethane	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
1,1-Dichloroethane	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
1,1-Dichloroethene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
1,1-Dichloropropene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
1,2,3-Trichlorobenzene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
1,2,3-Trichloropropane	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
1,2,4-Trichlorobenzene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
1,2,4-Trimethylbenzene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
1,2-Dibromo-3-chloropropane	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
1,2-Dibromoethane	ND	5.90		µg/Kg-dry	1	9/9/2011 3:30:00 PM
1,2-Dichlorobenzene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
1,2-Dichloroethane	ND	5.90		µg/Kg-dry	1	9/9/2011 3:30:00 PM
1,2-Dichloropropane	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
1,3,5-Trimethylbenzene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
1,3-Dichlorobenzene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
1,3-Dichloropropane	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
1,4-Dichlorobenzene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
2,2-Dichloropropane	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
2-Butanone	ND	23.6		µg/Kg-dry	1	9/9/2011 3:30:00 PM
2-Chlorotoluene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
2-Hexanone	ND	23.6		µg/Kg-dry	1	9/9/2011 3:30:00 PM
4-Chlorotoluene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-03

Client Sample ID: SS-8-1
Collection Date: 9/7/2011 8:30:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: rkg		
4-Isopropyltoluene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
4-Methyl-2-pentanone	ND	23.6		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Acetone	160	59.0		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Benzene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Bromobenzene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Bromochloromethane	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Bromodichloromethane	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Bromoform	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Bromomethane	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Carbon disulfide	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Carbon tetrachloride	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Chlorobenzene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Chloroethane	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Chloroform	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Chloromethane	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
cis-1,2-Dichloroethene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
cis-1,3-Dichloropropene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Dibromochloromethane	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Dibromomethane	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Dichlorodifluoromethane	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Ethylbenzene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Hexachlorobutadiene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Isopropylbenzene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
m,p-Xylene	ND	23.6		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Methyl tert-butyl ether	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Methylene chloride	ND	59.0		µg/Kg-dry	1	9/9/2011 3:30:00 PM
n-Butylbenzene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
n-Propylbenzene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Naphthalene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
o-Xylene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
sec-Butylbenzene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Styrene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
tert-Butylbenzene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Tetrachloroethene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Toluene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
trans-1,2-Dichloroethene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
trans-1,3-Dichloropropene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Trichloroethene	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Trichlorofluoromethane	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Vinyl chloride	ND	11.8		µg/Kg-dry	1	9/9/2011 3:30:00 PM
Surr: 1,2-Dichloroethane-d4	97.5	71.5-112		%REC	1	9/9/2011 3:30:00 PM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-03

Client Sample ID: SS-8-1
Collection Date: 9/7/2011 8:30:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
Surr: 4-Bromofluorobenzene	90.6	75.7-122		%REC	1	9/9/2011 3:30:00 PM
Surr: Dibromofluoromethane	109	64.3-124		%REC	1	9/9/2011 3:30:00 PM
Surr: Toluene-d8	117	74.9-120		%REC	1	9/9/2011 3:30:00 PM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-04

Client Sample ID: SS-7-1
Collection Date: 9/7/2011 8:45:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX						Analyst: jrj
Diesel	33.0	20.8	A1	mg/Kg-dry	1	9/13/2011
Lube Oil	154	69.4	A2	mg/Kg-dry	1	9/13/2011
Surr: o-Terphenyl	94.5	50-150		%REC	1	9/13/2011
TOTAL METALS BY ICP						Analyst: zau
Arsenic	6.71	2.04		mg/Kg-dry	1	9/9/2011 6:06:38 PM
Barium	230	1.02		mg/Kg-dry	1	9/9/2011 6:06:38 PM
Cadmium	ND	0.102		mg/Kg-dry	1	9/9/2011 6:06:38 PM
Chromium	20.1	0.511		mg/Kg-dry	1	9/9/2011 6:06:38 PM
Lead	6.98	2.04		mg/Kg-dry	1	9/9/2011 6:06:38 PM
Selenium	ND	2.04		mg/Kg-dry	1	9/9/2011 6:06:38 PM
Silver	2.22	2.04		mg/Kg-dry	1	9/9/2011 6:06:38 PM
MERCURY, TOTAL						Analyst: eh
Mercury	0.0404	0.0134		mg/Kg-dry	1	9/12/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-05

Client Sample ID: SS-3-1
Collection Date: 9/7/2011 9:00:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX						
NWTPH-DX			Analyst: jrp			
Diesel	ND	18.2		mg/Kg-dry	1	9/13/2011
Lube Oil	ND	60.7		mg/Kg-dry	1	9/13/2011
Surr: o-Terphenyl	94.0	50-150		%REC	1	9/13/2011
TOTAL METALS BY ICP						
E6010			Analyst: zau			
Arsenic	5.89	1.73		mg/Kg-dry	1	9/9/2011 6:11:33 PM
Barium	158	0.867		mg/Kg-dry	1	9/9/2011 6:11:33 PM
Cadmium	ND	0.0867		mg/Kg-dry	1	9/9/2011 6:11:33 PM
Chromium	18.2	0.433		mg/Kg-dry	1	9/9/2011 6:11:33 PM
Lead	ND	1.73		mg/Kg-dry	1	9/9/2011 6:11:33 PM
Selenium	ND	1.73		mg/Kg-dry	1	9/9/2011 6:11:33 PM
Silver	ND	1.73		mg/Kg-dry	1	9/9/2011 6:11:33 PM
MERCURY, TOTAL						
SW7471			Analyst: eh			
Mercury	0.0329	0.0138		mg/Kg-dry	1	9/12/2011
VOLATILES BY GC/MS						
SW8260B			Analyst: rkg			
1,1,1,2-Tetrachloroethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
1,1,1-Trichloroethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
1,1,2,2-Tetrachloroethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
1,1,2-Trichloroethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
1,1-Dichloroethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
1,1-Dichloroethene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
1,1-Dichloropropene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
1,2,3-Trichlorobenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
1,2,3-Trichloropropane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
1,2,4-Trichlorobenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
1,2,4-Trimethylbenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
1,2-Dibromo-3-chloropropane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
1,2-Dibromoethane	ND	6.07		µg/Kg-dry	1	9/9/2011 4:06:00 PM
1,2-Dichlorobenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
1,2-Dichloroethane	ND	6.07		µg/Kg-dry	1	9/9/2011 4:06:00 PM
1,2-Dichloropropane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
1,3,5-Trimethylbenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
1,3-Dichlorobenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
1,3-Dichloropropane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
1,4-Dichlorobenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
2,2-Dichloropropane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
2-Butanone	ND	24.3		µg/Kg-dry	1	9/9/2011 4:06:00 PM
2-Chlorotoluene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
2-Hexanone	ND	24.3		µg/Kg-dry	1	9/9/2011 4:06:00 PM
4-Chlorotoluene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-05

Client Sample ID: SS-3-1
Collection Date: 9/7/2011 9:00:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: rkg		
4-Isopropyltoluene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
4-Methyl-2-pentanone	ND	24.3		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Acetone	ND	60.7		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Benzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Bromobenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Bromochloromethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Bromodichloromethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Bromoform	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Bromomethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Carbon disulfide	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Carbon tetrachloride	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Chlorobenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Chloroethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Chloroform	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Chloromethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
cis-1,2-Dichloroethene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
cis-1,3-Dichloropropene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Dibromochloromethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Dibromomethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Dichlorodifluoromethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Ethylbenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Hexachlorobutadiene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Isopropylbenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
m,p-Xylene	ND	24.3		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Methyl tert-butyl ether	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Methylene chloride	ND	60.7		µg/Kg-dry	1	9/9/2011 4:06:00 PM
n-Butylbenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
n-Propylbenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Naphthalene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
o-Xylene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
sec-Butylbenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Styrene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
tert-Butylbenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Tetrachloroethene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Toluene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
trans-1,2-Dichloroethene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
trans-1,3-Dichloropropene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Trichloroethene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Trichlorofluoromethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Vinyl chloride	ND	12.1		µg/Kg-dry	1	9/9/2011 4:06:00 PM
Surr: 1,2-Dichloroethane-d4	93.8	71.5-112		%REC	1	9/9/2011 4:06:00 PM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-05

Client Sample ID: SS-3-1
Collection Date: 9/7/2011 9:00:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
Surr: 4-Bromofluorobenzene	92.3	75.7-122		%REC	1	9/9/2011 4:06:00 PM
Surr: Dibromofluoromethane	109	64.3-124		%REC	1	9/9/2011 4:06:00 PM
Surr: Toluene-d8	112	74.9-120		%REC	1	9/9/2011 4:06:00 PM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-06

Client Sample ID: SS-4-1
Collection Date: 9/7/2011 8:50:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX						Analyst: jrj
Diesel	26.1	18.4	A1	mg/Kg-dry	1	9/13/2011
Lube Oil	180	61.2	A2	mg/Kg-dry	1	9/13/2011
Surr: o-Terphenyl	93.0	50-150		%REC	1	9/13/2011
TOTAL METALS BY ICP						Analyst: zau
Arsenic	1.42	1.27		mg/Kg-dry	1	9/9/2011 6:16:29 PM
Barium	73.6	0.637		mg/Kg-dry	1	9/9/2011 6:16:29 PM
Cadmium	ND	0.0637		mg/Kg-dry	1	9/9/2011 6:16:29 PM
Chromium	6.02	0.319		mg/Kg-dry	1	9/9/2011 6:16:29 PM
Lead	4.23	1.27		mg/Kg-dry	1	9/9/2011 6:16:29 PM
Selenium	ND	1.27		mg/Kg-dry	1	9/9/2011 6:16:29 PM
Silver	1.73	1.27		mg/Kg-dry	1	9/9/2011 6:16:29 PM
MERCURY, TOTAL						Analyst: eh
Mercury	0.253	0.0123		mg/Kg-dry	1	9/12/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-07

Client Sample ID: TP-9-2
Collection Date: 9/7/2011 2:15:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrj
Diesel	79.9	19.8	A1	mg/Kg-dry	1	9/13/2011
Lube Oil	475	66.1	A2	mg/Kg-dry	1	9/13/2011
Surr: o-Terphenyl	82.4	50-150		%REC	1	9/13/2011
5035A/NWTPH-GX		NWTPH-GX				Analyst: jrj
Gasoline	ND	5.39		mg/Kg-dry	1	9/12/2011
Surr: 4-Bromofluorobenzene	84.7	50-150		%REC	1	9/12/2011
TOTAL METALS BY ICP		E6010				Analyst: zau
Arsenic	6.70	2.20		mg/Kg-dry	1	9/9/2011 6:21:26 PM
Barium	67.4	1.10		mg/Kg-dry	1	9/9/2011 6:21:26 PM
Cadmium	ND	0.110		mg/Kg-dry	1	9/9/2011 6:21:26 PM
Chromium	38.6	0.551		mg/Kg-dry	1	9/9/2011 6:21:26 PM
Lead	21.0	2.20		mg/Kg-dry	1	9/9/2011 6:21:26 PM
Selenium	ND	2.20		mg/Kg-dry	1	9/9/2011 6:21:26 PM
Silver	ND	2.20		mg/Kg-dry	1	9/9/2011 6:21:26 PM
MERCURY, TOTAL		SW7471				Analyst: eh
Mercury	0.0662	0.0144		mg/Kg-dry	1	9/12/2011
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: das
1-Methylnaphthalene	ND	8.82		µg/Kg-dry	1	9/15/2011 1:47:00 AM
2-Methylnaphthalene	ND	8.82		µg/Kg-dry	1	9/15/2011 1:47:00 AM
Acenaphthene	ND	8.82		µg/Kg-dry	1	9/15/2011 1:47:00 AM
Acenaphthylene	ND	8.82		µg/Kg-dry	1	9/15/2011 1:47:00 AM
Anthracene	ND	8.82		µg/Kg-dry	1	9/15/2011 1:47:00 AM
Benz(a)anthracene	15.9	8.82		µg/Kg-dry	1	9/15/2011 1:47:00 AM
Benzo(a)pyrene	15.0	8.82		µg/Kg-dry	1	9/15/2011 1:47:00 AM
Benzo(b)fluoranthene	22.0	8.82		µg/Kg-dry	1	9/15/2011 1:47:00 AM
Benzo(g,h,i)perylene	15.9	8.82		µg/Kg-dry	1	9/15/2011 1:47:00 AM
Benzo(k)fluoranthene	9.70	8.82		µg/Kg-dry	1	9/15/2011 1:47:00 AM
Chrysene	14.1	8.82		µg/Kg-dry	1	9/15/2011 1:47:00 AM
Dibenz(a,h)anthracene	ND	8.82		µg/Kg-dry	1	9/15/2011 1:47:00 AM
Fluoranthene	15.9	8.82		µg/Kg-dry	1	9/15/2011 1:47:00 AM
Fluorene	ND	8.82		µg/Kg-dry	1	9/15/2011 1:47:00 AM
Indeno(1,2,3-cd)pyrene	15.9	8.82		µg/Kg-dry	1	9/15/2011 1:47:00 AM
Naphthalene	ND	8.82		µg/Kg-dry	1	9/15/2011 1:47:00 AM
Phenanthrene	30.0	8.82		µg/Kg-dry	1	9/15/2011 1:47:00 AM
Pyrene	32.6	8.82		µg/Kg-dry	1	9/15/2011 1:47:00 AM
Surr: 2-Fluorobiphenyl	59.7	42.6-128		%REC	1	9/15/2011 1:47:00 AM
Surr: Nitrobenzene-d5	55.8	21.7-155		%REC	1	9/15/2011 1:47:00 AM
Surr: p-Terphenyl-d14	72.2	44.9-155		%REC	1	9/15/2011 1:47:00 AM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-08

Client Sample ID: TP-9-7
Collection Date: 9/7/2011 2:40:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrj
Diesel	ND	19.5		mg/Kg-dry	1	9/13/2011
Lube Oil	ND	64.9		mg/Kg-dry	1	9/14/2011
Surr: o-Terphenyl	95.4	50-150		%REC	1	9/13/2011
5035A/NWTPH-GX		NWTPH-GX				Analyst: jrj
Gasoline	ND	4.42		mg/Kg-dry	1	9/12/2011
Surr: 4-Bromofluorobenzene	79.0	50-150		%REC	1	9/12/2011
TOTAL METALS BY ICP		E6010				Analyst: zau
Arsenic	5.01	2.32		mg/Kg-dry	1	9/9/2011 6:26:24 PM
Barium	194	1.16		mg/Kg-dry	1	9/9/2011 6:26:24 PM
Cadmium	ND	0.116		mg/Kg-dry	1	9/9/2011 6:26:24 PM
Chromium	29.6	0.580		mg/Kg-dry	1	9/9/2011 6:26:24 PM
Lead	3.05	2.32		mg/Kg-dry	1	9/9/2011 6:26:24 PM
Selenium	ND	2.32		mg/Kg-dry	1	9/9/2011 6:26:24 PM
Silver	ND	2.32		mg/Kg-dry	1	9/9/2011 6:26:24 PM
MERCURY, TOTAL		SW7471				Analyst: eh
Mercury	ND	0.0125		mg/Kg-dry	1	9/12/2011
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: das
1-Methylnaphthalene	ND	8.66		µg/Kg-dry	1	9/15/2011 2:13:00 AM
2-Methylnaphthalene	10.4	8.66		µg/Kg-dry	1	9/15/2011 2:13:00 AM
Acenaphthene	ND	8.66		µg/Kg-dry	1	9/15/2011 2:13:00 AM
Acenaphthylene	ND	8.66		µg/Kg-dry	1	9/15/2011 2:13:00 AM
Anthracene	57.1	8.66		µg/Kg-dry	1	9/15/2011 2:13:00 AM
Benz(a)anthracene	62.3	8.66		µg/Kg-dry	1	9/15/2011 2:13:00 AM
Benzo(a)pyrene	32.0	8.66		µg/Kg-dry	1	9/15/2011 2:13:00 AM
Benzo(b)fluoranthene	17.3	8.66		µg/Kg-dry	1	9/15/2011 2:13:00 AM
Benzo(g,h,i)perylene	21.6	8.66		µg/Kg-dry	1	9/15/2011 2:13:00 AM
Benzo(k)fluoranthene	ND	8.66		µg/Kg-dry	1	9/15/2011 2:13:00 AM
Chrysene	70.1	8.66		µg/Kg-dry	1	9/15/2011 2:13:00 AM
Dibenz(a,h)anthracene	ND	8.66		µg/Kg-dry	1	9/15/2011 2:13:00 AM
Fluoranthene	69.3	8.66		µg/Kg-dry	1	9/15/2011 2:13:00 AM
Fluorene	9.52	8.66		µg/Kg-dry	1	9/15/2011 2:13:00 AM
Indeno(1,2,3-cd)pyrene	ND	8.66		µg/Kg-dry	1	9/15/2011 2:13:00 AM
Naphthalene	ND	8.66		µg/Kg-dry	1	9/15/2011 2:13:00 AM
Phenanthrene	480	8.66		µg/Kg-dry	1	9/15/2011 2:13:00 AM
Pyrene	371	8.66		µg/Kg-dry	1	9/15/2011 2:13:00 AM
Surr: 2-Fluorobiphenyl	36.7	42.6-128	S,MI	%REC	1	9/15/2011 2:13:00 AM
Surr: Nitrobenzene-d5	12.2	21.7-155	S,MI	%REC	1	9/15/2011 2:13:00 AM
Surr: p-Terphenyl-d14	66.6	44.9-155		%REC	1	9/15/2011 2:13:00 AM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-09

Client Sample ID: TP-10-2
Collection Date: 9/7/2011 1:25:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrj
Diesel	ND	19.0		mg/Kg-dry	1	9/13/2011
Lube Oil	ND	63.3		mg/Kg-dry	1	9/13/2011
Surr: o-Terphenyl	98.7	50-150		%REC	1	9/13/2011
5035A/NWTPH-GX		NWTPH-GX				Analyst: jrj
Gasoline	23.7	6.06		mg/Kg-dry	1	9/12/2011
Surr: 4-Bromofluorobenzene	85.3	50-150		%REC	1	9/12/2011
TOTAL METALS BY ICP		E6010				Analyst: zau
Arsenic	5.82	2.18		mg/Kg-dry	1	9/9/2011 6:31:21 PM
Barium	255	1.09		mg/Kg-dry	1	9/9/2011 6:31:21 PM
Cadmium	ND	0.109		mg/Kg-dry	1	9/9/2011 6:31:21 PM
Chromium	16.3	0.546		mg/Kg-dry	1	9/9/2011 6:31:21 PM
Lead	ND	2.18		mg/Kg-dry	1	9/9/2011 6:31:21 PM
Selenium	ND	2.18		mg/Kg-dry	1	9/9/2011 6:31:21 PM
Silver	2.32	2.18		mg/Kg-dry	1	9/9/2011 6:31:21 PM
MERCURY, TOTAL		SW7471				Analyst: eh
Mercury	0.0543	0.00961		mg/Kg-dry	1	9/12/2011
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: das
1-Methylnaphthalene	ND	8.44		µg/Kg-dry	1	9/14/2011 11:10:00 PM
2-Methylnaphthalene	ND	8.44		µg/Kg-dry	1	9/14/2011 11:10:00 PM
Acenaphthene	ND	8.44		µg/Kg-dry	1	9/14/2011 11:10:00 PM
Acenaphthylene	ND	8.44		µg/Kg-dry	1	9/14/2011 11:10:00 PM
Anthracene	ND	8.44		µg/Kg-dry	1	9/14/2011 11:10:00 PM
Benz(a)anthracene	ND	8.44		µg/Kg-dry	1	9/14/2011 11:10:00 PM
Benzo(a)pyrene	ND	8.44		µg/Kg-dry	1	9/14/2011 11:10:00 PM
Benzo(b)fluoranthene	ND	8.44		µg/Kg-dry	1	9/14/2011 11:10:00 PM
Benzo(g,h,i)perylene	ND	8.44		µg/Kg-dry	1	9/14/2011 11:10:00 PM
Benzo(k)fluoranthene	ND	8.44		µg/Kg-dry	1	9/14/2011 11:10:00 PM
Chrysene	ND	8.44		µg/Kg-dry	1	9/14/2011 11:10:00 PM
Dibenz(a,h)anthracene	ND	8.44		µg/Kg-dry	1	9/14/2011 11:10:00 PM
Fluoranthene	ND	8.44		µg/Kg-dry	1	9/14/2011 11:10:00 PM
Fluorene	ND	8.44		µg/Kg-dry	1	9/14/2011 11:10:00 PM
Indeno(1,2,3-cd)pyrene	ND	8.44		µg/Kg-dry	1	9/14/2011 11:10:00 PM
Naphthalene	21.1	8.44		µg/Kg-dry	1	9/14/2011 11:10:00 PM
Phenanthrene	ND	8.44		µg/Kg-dry	1	9/14/2011 11:10:00 PM
Pyrene	ND	8.44		µg/Kg-dry	1	9/14/2011 11:10:00 PM
Surr: 2-Fluorobiphenyl	41.3	42.6-128	S	%REC	1	9/14/2011 11:10:00 PM
Surr: Nitrobenzene-d5	39.9	21.7-155		%REC	1	9/14/2011 11:10:00 PM
Surr: p-Terphenyl-d14	82.9	44.9-155		%REC	1	9/14/2011 11:10:00 PM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-10

Client Sample ID: TP-10-7
Collection Date: 9/7/2011 1:45:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrj
Diesel	ND	18.0		mg/Kg-dry	1	9/13/2011
Lube Oil	ND	59.9		mg/Kg-dry	1	9/13/2011
Surr: o-Terphenyl	93.7	50-150		%REC	1	9/13/2011
5035A/NWTPH-GX		NWTPH-GX				Analyst: jrj
Gasoline	ND	5.85		mg/Kg-dry	1	9/12/2011
Surr: 4-Bromofluorobenzene	86.0	50-150		%REC	1	9/12/2011
TOTAL METALS BY ICP		E6010				Analyst: zau
Arsenic	7.77	1.87		mg/Kg-dry	1	9/9/2011 6:36:18 PM
Barium	112	0.936		mg/Kg-dry	1	9/9/2011 6:36:18 PM
Cadmium	ND	0.0936		mg/Kg-dry	1	9/9/2011 6:36:18 PM
Chromium	17.6	0.468		mg/Kg-dry	1	9/9/2011 6:36:18 PM
Lead	ND	1.87		mg/Kg-dry	1	9/9/2011 6:36:18 PM
Selenium	ND	1.87		mg/Kg-dry	1	9/9/2011 6:36:18 PM
Silver	2.54	1.87		mg/Kg-dry	1	9/9/2011 6:36:18 PM
MERCURY, TOTAL		SW7471				Analyst: eh
Mercury	0.128	0.0120		mg/Kg-dry	1	9/12/2011
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: das
1-Methylnaphthalene	ND	7.99		µg/Kg-dry	1	9/14/2011 11:36:00 PM
2-Methylnaphthalene	ND	7.99		µg/Kg-dry	1	9/14/2011 11:36:00 PM
Acenaphthene	ND	7.99		µg/Kg-dry	1	9/14/2011 11:36:00 PM
Acenaphthylene	ND	7.99		µg/Kg-dry	1	9/14/2011 11:36:00 PM
Anthracene	ND	7.99		µg/Kg-dry	1	9/14/2011 11:36:00 PM
Benz(a)anthracene	ND	7.99		µg/Kg-dry	1	9/14/2011 11:36:00 PM
Benzo(a)pyrene	ND	7.99		µg/Kg-dry	1	9/14/2011 11:36:00 PM
Benzo(b)fluoranthene	ND	7.99		µg/Kg-dry	1	9/14/2011 11:36:00 PM
Benzo(g,h,i)perylene	ND	7.99		µg/Kg-dry	1	9/14/2011 11:36:00 PM
Benzo(k)fluoranthene	ND	7.99		µg/Kg-dry	1	9/14/2011 11:36:00 PM
Chrysene	ND	7.99		µg/Kg-dry	1	9/14/2011 11:36:00 PM
Dibenz(a,h)anthracene	ND	7.99		µg/Kg-dry	1	9/14/2011 11:36:00 PM
Fluoranthene	ND	7.99		µg/Kg-dry	1	9/14/2011 11:36:00 PM
Fluorene	ND	7.99		µg/Kg-dry	1	9/14/2011 11:36:00 PM
Indeno(1,2,3-cd)pyrene	ND	7.99		µg/Kg-dry	1	9/14/2011 11:36:00 PM
Naphthalene	ND	7.99		µg/Kg-dry	1	9/14/2011 11:36:00 PM
Phenanthrene	ND	7.99		µg/Kg-dry	1	9/14/2011 11:36:00 PM
Pyrene	ND	7.99		µg/Kg-dry	1	9/14/2011 11:36:00 PM
Surr: 2-Fluorobiphenyl	33.5	42.6-128	S	%REC	1	9/14/2011 11:36:00 PM
Surr: Nitrobenzene-d5	36.3	21.7-155		%REC	1	9/14/2011 11:36:00 PM
Surr: p-Terphenyl-d14	81.4	44.9-155		%REC	1	9/14/2011 11:36:00 PM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-11

Client Sample ID: TP-11-2
Collection Date: 9/7/2011 2:50:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrj
Diesel	68.7	26.6	A1	mg/Kg-dry	1	9/13/2011
Lube Oil	488	88.8	A2	mg/Kg-dry	1	9/13/2011
Surr: o-Terphenyl	63.5	50-150		%REC	1	9/13/2011
5035A/NWTPH-GX		NWTPH-GX				Analyst: jrj
Gasoline	ND	7.93		mg/Kg-dry	1	9/12/2011
Surr: 4-Bromofluorobenzene	92.1	50-150		%REC	1	9/12/2011
TOTAL METALS BY ICP		E6010				Analyst: zau
Arsenic	3.37	2.47		mg/Kg-dry	1	9/9/2011 6:41:14 PM
Barium	83.4	1.23		mg/Kg-dry	1	9/9/2011 6:41:14 PM
Cadmium	ND	0.123		mg/Kg-dry	1	9/9/2011 6:41:14 PM
Chromium	9.20	0.617		mg/Kg-dry	1	9/9/2011 6:41:14 PM
Lead	17.1	2.47		mg/Kg-dry	1	9/9/2011 6:41:14 PM
Selenium	ND	2.47		mg/Kg-dry	1	9/9/2011 6:41:14 PM
Silver	2.89	2.47		mg/Kg-dry	1	9/9/2011 6:41:14 PM
MERCURY, TOTAL		SW7471				Analyst: eh
Mercury	0.0533	0.0120		mg/Kg-dry	1	9/12/2011
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: das
1-Methylnaphthalene	ND	11.8		µg/Kg-dry	1	9/15/2011 4:45:00 PM
2-Methylnaphthalene	ND	11.8		µg/Kg-dry	1	9/15/2011 4:45:00 PM
Acenaphthene	ND	11.8		µg/Kg-dry	1	9/15/2011 4:45:00 PM
Acenaphthylene	ND	11.8		µg/Kg-dry	1	9/15/2011 4:45:00 PM
Anthracene	ND	11.8		µg/Kg-dry	1	9/15/2011 4:45:00 PM
Benz(a)anthracene	15.4	11.8		µg/Kg-dry	1	9/15/2011 4:45:00 PM
Benzo(a)pyrene	13.0	11.8		µg/Kg-dry	1	9/15/2011 4:45:00 PM
Benzo(b)fluoranthene	26.1	11.8		µg/Kg-dry	1	9/15/2011 4:45:00 PM
Benzo(g,h,i)perylene	26.1	11.8		µg/Kg-dry	1	9/15/2011 4:45:00 PM
Benzo(k)fluoranthene	15.4	11.8		µg/Kg-dry	1	9/15/2011 4:45:00 PM
Chrysene	27.2	11.8		µg/Kg-dry	1	9/15/2011 4:45:00 PM
Dibenz(a,h)anthracene	ND	11.8		µg/Kg-dry	1	9/15/2011 4:45:00 PM
Fluoranthene	15.4	11.8		µg/Kg-dry	1	9/15/2011 4:45:00 PM
Fluorene	ND	11.8		µg/Kg-dry	1	9/15/2011 4:45:00 PM
Indeno(1,2,3-cd)pyrene	16.6	11.8		µg/Kg-dry	1	9/15/2011 4:45:00 PM
Naphthalene	ND	11.8		µg/Kg-dry	1	9/15/2011 4:45:00 PM
Phenanthrene	13.0	11.8		µg/Kg-dry	1	9/15/2011 4:45:00 PM
Pyrene	24.9	11.8		µg/Kg-dry	1	9/15/2011 4:45:00 PM
Surr: 2-Fluorobiphenyl	39.1	42.6-128	S	%REC	1	9/15/2011 4:45:00 PM
Surr: Nitrobenzene-d5	28.6	21.7-155		%REC	1	9/15/2011 4:45:00 PM
Surr: p-Terphenyl-d14	69.2	44.9-155		%REC	1	9/15/2011 4:45:00 PM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-12

Client Sample ID: TP-11-7
Collection Date: 9/7/2011 3:00:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrp
Diesel	ND	17.8		mg/Kg-dry	1	9/13/2011
Lube Oil	ND	59.2		mg/Kg-dry	1	9/13/2011
Surr: o-Terphenyl	88.1	50-150		%REC	1	9/13/2011
5035A/NWTPH-GX		NWTPH-GX				Analyst: jrp
Gasoline	ND	3.48		mg/Kg-dry	1	9/12/2011
Surr: 4-Bromofluorobenzene	89.5	50-150		%REC	1	9/12/2011
TOTAL METALS BY ICP		E6010				Analyst: zau
Arsenic	4.75	1.97		mg/Kg-dry	1	9/9/2011 6:46:13 PM
Barium	173	0.987		mg/Kg-dry	1	9/9/2011 6:46:13 PM
Cadmium	ND	0.0987		mg/Kg-dry	1	9/9/2011 6:46:13 PM
Chromium	6.59	0.494		mg/Kg-dry	1	9/9/2011 6:46:13 PM
Lead	ND	1.97		mg/Kg-dry	1	9/9/2011 6:46:13 PM
Selenium	ND	1.97		mg/Kg-dry	1	9/9/2011 6:46:13 PM
Silver	5.03	1.97		mg/Kg-dry	1	9/9/2011 6:46:13 PM
MERCURY, TOTAL		SW7471				Analyst: eh
Mercury	0.0614	0.00802		mg/Kg-dry	1	9/12/2011
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: das
1-Methylnaphthalene	ND	7.90		µg/Kg-dry	1	9/15/2011 12:02:00 AM
2-Methylnaphthalene	ND	7.90		µg/Kg-dry	1	9/15/2011 12:02:00 AM
Acenaphthene	ND	7.90		µg/Kg-dry	1	9/15/2011 12:02:00 AM
Acenaphthylene	ND	7.90		µg/Kg-dry	1	9/15/2011 12:02:00 AM
Anthracene	ND	7.90		µg/Kg-dry	1	9/15/2011 12:02:00 AM
Benz(a)anthracene	ND	7.90		µg/Kg-dry	1	9/15/2011 12:02:00 AM
Benzo(a)pyrene	ND	7.90		µg/Kg-dry	1	9/15/2011 12:02:00 AM
Benzo(b)fluoranthene	ND	7.90		µg/Kg-dry	1	9/15/2011 12:02:00 AM
Benzo(g,h,i)perylene	ND	7.90		µg/Kg-dry	1	9/15/2011 12:02:00 AM
Benzo(k)fluoranthene	ND	7.90		µg/Kg-dry	1	9/15/2011 12:02:00 AM
Chrysene	ND	7.90		µg/Kg-dry	1	9/15/2011 12:02:00 AM
Dibenz(a,h)anthracene	ND	7.90		µg/Kg-dry	1	9/15/2011 12:02:00 AM
Fluoranthene	ND	7.90		µg/Kg-dry	1	9/15/2011 12:02:00 AM
Fluorene	ND	7.90		µg/Kg-dry	1	9/15/2011 12:02:00 AM
Indeno(1,2,3-cd)pyrene	ND	7.90		µg/Kg-dry	1	9/15/2011 12:02:00 AM
Naphthalene	ND	7.90		µg/Kg-dry	1	9/15/2011 12:02:00 AM
Phenanthrene	ND	7.90		µg/Kg-dry	1	9/15/2011 12:02:00 AM
Pyrene	ND	7.90		µg/Kg-dry	1	9/15/2011 12:02:00 AM
Surr: 2-Fluorobiphenyl	26.8	42.6-128	S	%REC	1	9/15/2011 12:02:00 AM
Surr: Nitrobenzene-d5	27.3	21.7-155		%REC	1	9/15/2011 12:02:00 AM
Surr: p-Terphenyl-d14	85.3	44.9-155		%REC	1	9/15/2011 12:02:00 AM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-13

Client Sample ID: SP-1
Collection Date: 9/8/2011 9:00:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						
			NWHCID		Analyst: jrj	
Gasoline	ND	22.7		mg/Kg-dry	1	9/9/2011
Mineral Spirits	ND	22.7		mg/Kg-dry	1	9/9/2011
Kerosene	ND	56.7		mg/Kg-dry	1	9/9/2011
Diesel	Diesel	56.7		mg/Kg-dry	1	9/9/2011
Lube Oil	Lube Oil	113		mg/Kg-dry	1	9/9/2011
Surr: BFB	94.6	50-150		%REC	1	9/9/2011
Surr: o-Terphenyl	93.9	50-150		%REC	1	9/9/2011
NWTPH-DX						
			NWTPH-DX		Analyst: kh	
Diesel	ND	17.0	A3	mg/Kg-dry	1	9/16/2011
Lube Oil	1010	56.7		mg/Kg-dry	1	9/16/2011
Surr: o-Terphenyl	87.4	50-150		%REC	1	9/16/2011
TOTAL METALS BY ICP						
			E6010		Analyst: zau	
Arsenic	5.52	1.53		mg/Kg-dry	1	9/9/2011 8:56:01 PM
Barium	76.5	0.766	B	mg/Kg-dry	1	9/9/2011 8:56:01 PM
Cadmium	ND	0.0766		mg/Kg-dry	1	9/9/2011 8:56:01 PM
Chromium	8.39	0.383		mg/Kg-dry	1	9/9/2011 8:56:01 PM
Lead	9.33	1.53		mg/Kg-dry	1	9/9/2011 8:56:01 PM
Selenium	ND	1.53		mg/Kg-dry	1	9/9/2011 8:56:01 PM
Silver	2.32	1.53		mg/Kg-dry	1	9/9/2011 8:56:01 PM
MERCURY, TOTAL						
			SW7471		Analyst: eh	
Mercury	0.0277	0.0114		mg/Kg-dry	1	9/12/2011
LOW LEVEL PAH BY GC/MS						
			8270SIM		Analyst: das	
1-Methylnaphthalene	ND	7.56		µg/Kg-dry	1	9/15/2011 5:11:00 PM
2-Methylnaphthalene	ND	7.56		µg/Kg-dry	1	9/15/2011 5:11:00 PM
Acenaphthene	ND	7.56		µg/Kg-dry	1	9/15/2011 5:11:00 PM
Acenaphthylene	ND	7.56		µg/Kg-dry	1	9/15/2011 5:11:00 PM
Anthracene	8.31	7.56		µg/Kg-dry	1	9/15/2011 5:11:00 PM
Benz(a)anthracene	15.9	7.56		µg/Kg-dry	1	9/15/2011 5:11:00 PM
Benzo(a)pyrene	36.3	7.56		µg/Kg-dry	1	9/15/2011 5:11:00 PM
Benzo(b)fluoranthene	58.2	7.56		µg/Kg-dry	1	9/15/2011 5:11:00 PM
Benzo(g,h,i)perylene	53.7	7.56		µg/Kg-dry	1	9/15/2011 5:11:00 PM
Benzo(k)fluoranthene	62.7	7.56		µg/Kg-dry	1	9/15/2011 5:11:00 PM
Chrysene	37.8	7.56		µg/Kg-dry	1	9/15/2011 5:11:00 PM
Dibenz(a,h)anthracene	ND	7.56		µg/Kg-dry	1	9/15/2011 5:11:00 PM
Fluoranthene	24.2	7.56		µg/Kg-dry	1	9/15/2011 5:11:00 PM
Fluorene	ND	7.56		µg/Kg-dry	1	9/15/2011 5:11:00 PM
Indeno(1,2,3-cd)pyrene	26.5	7.56		µg/Kg-dry	1	9/15/2011 5:11:00 PM
Naphthalene	ND	7.56		µg/Kg-dry	1	9/15/2011 5:11:00 PM
Phenanthrene	15.9	7.56		µg/Kg-dry	1	9/15/2011 5:11:00 PM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-13

Client Sample ID: SP-1
Collection Date: 9/8/2011 9:00:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LOW LEVEL PAH BY GC/MS	8270SIM					Analyst: das
Pyrene	37.8	7.56		µg/Kg-dry	1	9/15/2011 5:11:00 PM
Surr: 2-Fluorobiphenyl	69.2	42.6-128		%REC	1	9/15/2011 5:11:00 PM
Surr: Nitrobenzene-d5	57.6	21.7-155		%REC	1	9/15/2011 5:11:00 PM
Surr: p-Terphenyl-d14	87.3	44.9-155		%REC	1	9/15/2011 5:11:00 PM
PCB'S IN SOIL	SW8082					Analyst: jrp
Aroclor 1016	ND	0.378		µg/Kg-dry	1	9/12/2011
Aroclor 1221	ND	0.378		µg/Kg-dry	1	9/12/2011
Aroclor 1232	ND	0.378		µg/Kg-dry	1	9/12/2011
Aroclor 1242	ND	0.378		µg/Kg-dry	1	9/12/2011
Aroclor 1248	ND	0.378		µg/Kg-dry	1	9/12/2011
Aroclor 1254	ND	0.378		µg/Kg-dry	1	9/12/2011
Aroclor 1260	17.4	0.378	CN	µg/Kg-dry	1	9/12/2011
Aroclor 1262	ND	0.378		µg/Kg-dry	1	9/12/2011
Aroclor 1268	ND	0.378		µg/Kg-dry	1	9/12/2011
Surr: Decachlorobiphenyl	77.0	56.5-130		%REC	1	9/12/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-14

Client Sample ID: SP-2
Collection Date: 9/8/2011 9:30:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						
			NWHCID		Analyst: jrj	
Gasoline	ND	20.8		mg/Kg-dry	1	9/9/2011
Mineral Spirits	ND	20.8		mg/Kg-dry	1	9/9/2011
Kerosene	ND	52.0		mg/Kg-dry	1	9/9/2011
Diesel	ND	52.0		mg/Kg-dry	1	9/9/2011
Lube Oil	Lube Oil	104		mg/Kg-dry	1	9/9/2011
Surr: BFB	83.4	50-150		%REC	1	9/9/2011
Surr: o-Terphenyl	83.5	50-150		%REC	1	9/9/2011
NWTPH-DX						
			NWTPH-DX		Analyst: kh	
Diesel	26.7	15.6		mg/Kg-dry	1	9/21/2011
Lube Oil	218	52.0		mg/Kg-dry	1	9/21/2011
Surr: o-Terphenyl	102	50-150		%REC	1	9/21/2011
TOTAL METALS BY ICP						
			E6010		Analyst: zau	
Arsenic	4.44	1.18		mg/Kg-dry	1	9/9/2011 9:21:17 PM
Barium	70.1	0.591	B	mg/Kg-dry	1	9/9/2011 9:21:17 PM
Cadmium	ND	0.0591		mg/Kg-dry	1	9/9/2011 9:21:17 PM
Chromium	9.77	0.296		mg/Kg-dry	1	9/9/2011 9:21:17 PM
Lead	18.8	1.18		mg/Kg-dry	1	9/9/2011 9:21:17 PM
Selenium	ND	1.18		mg/Kg-dry	1	9/9/2011 9:21:17 PM
Silver	1.77	1.18		mg/Kg-dry	1	9/9/2011 9:21:17 PM
MERCURY, TOTAL						
			SW7471		Analyst: eh	
Mercury	0.0104	0.00724		mg/Kg-dry	1	9/12/2011
LOW LEVEL PAH BY GC/MS						
			8270SIM		Analyst: das	
1-Methylnaphthalene	ND	6.94		µg/Kg-dry	1	9/15/2011 5:37:00 PM
2-Methylnaphthalene	ND	6.94		µg/Kg-dry	1	9/15/2011 5:37:00 PM
Acenaphthene	ND	34.7	Q	µg/Kg-dry	5	9/17/2011 4:53:00 PM
Acenaphthylene	ND	34.7	Q	µg/Kg-dry	5	9/17/2011 4:53:00 PM
Anthracene	ND	34.7	Q	µg/Kg-dry	5	9/17/2011 4:53:00 PM
Benz(a)anthracene	257	34.7		µg/Kg-dry	5	9/17/2011 4:53:00 PM
Benzo(a)pyrene	232	34.7		µg/Kg-dry	5	9/17/2011 4:53:00 PM
Benzo(b)fluoranthene	336	34.7		µg/Kg-dry	5	9/17/2011 4:53:00 PM
Benzo(g,h,i)perylene	142	34.7		µg/Kg-dry	5	9/17/2011 4:53:00 PM
Benzo(k)fluoranthene	173	34.7		µg/Kg-dry	5	9/17/2011 4:53:00 PM
Chrysene	298	34.7		µg/Kg-dry	5	9/17/2011 4:53:00 PM
Dibenz(a,h)anthracene	ND	34.7	Q	µg/Kg-dry	5	9/17/2011 4:53:00 PM
Fluoranthene	267	34.7		µg/Kg-dry	5	9/17/2011 4:53:00 PM
Fluorene	ND	34.7	Q	µg/Kg-dry	5	9/17/2011 4:53:00 PM
Indeno(1,2,3-cd)pyrene	139	34.7		µg/Kg-dry	5	9/17/2011 4:53:00 PM
Naphthalene	ND	6.94		µg/Kg-dry	1	9/15/2011 5:37:00 PM
Phenanthrene	ND	34.7	Q	µg/Kg-dry	5	9/17/2011 4:53:00 PM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-14

Client Sample ID: SP-2
Collection Date: 9/8/2011 9:30:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LOW LEVEL PAH BY GC/MS						
		8270SIM				Analyst: das
Pyrene	388	34.7		µg/Kg-dry	5	9/17/2011 4:53:00 PM
Surr: 2-Fluorobiphenyl	76.2	42.6-128		%REC	5	9/17/2011 4:53:00 PM
Surr: Nitrobenzene-d5	43.5	21.7-155		%REC	1	9/15/2011 5:37:00 PM
Surr: p-Terphenyl-d14	112	44.9-155		%REC	5	9/17/2011 4:53:00 PM
PCB'S IN SOIL						
		SW8082				Analyst: jrj
Aroclor 1016	ND	0.347		µg/Kg-dry	1	9/12/2011
Aroclor 1221	ND	0.347		µg/Kg-dry	1	9/12/2011
Aroclor 1232	ND	0.347		µg/Kg-dry	1	9/12/2011
Aroclor 1242	ND	0.347		µg/Kg-dry	1	9/12/2011
Aroclor 1248	ND	0.347		µg/Kg-dry	1	9/12/2011
Aroclor 1254	ND	0.347		µg/Kg-dry	1	9/12/2011
Aroclor 1260	19.4	0.347	CN	µg/Kg-dry	1	9/12/2011
Aroclor 1262	ND	0.347		µg/Kg-dry	1	9/12/2011
Aroclor 1268	ND	0.347		µg/Kg-dry	1	9/12/2011
Surr: Decachlorobiphenyl	92.3	56.5-130		%REC	1	9/12/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-15

Client Sample ID: SP-3
Collection Date: 9/8/2011 10:30:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		NWHCID				Analyst: jrj
Gasoline	ND	20.2		mg/Kg-dry	1	9/9/2011
Mineral Spirits	ND	20.2		mg/Kg-dry	1	9/9/2011
Kerosene	ND	50.5		mg/Kg-dry	1	9/9/2011
Diesel	ND	50.5		mg/Kg-dry	1	9/9/2011
Lube Oil	Lube Oil	101		mg/Kg-dry	1	9/9/2011
Surr: BFB	94.4	50-150		%REC	1	9/9/2011
Surr: o-Terphenyl	91.0	50-150		%REC	1	9/9/2011
NWTPH-DX		NWTPH-DX				Analyst: kh
Diesel	ND	15.2	A3	mg/Kg-dry	1	9/16/2011
Lube Oil	164	50.5		mg/Kg-dry	1	9/16/2011
Surr: o-Terphenyl	92.8	50-150		%REC	1	9/16/2011
TOTAL METALS BY ICP		E6010				Analyst: zau
Arsenic	3.55	1.37		mg/Kg-dry	1	9/9/2011 9:26:16 PM
Barium	65.8	0.683	B	mg/Kg-dry	1	9/9/2011 9:26:16 PM
Cadmium	ND	0.0683		mg/Kg-dry	1	9/9/2011 9:26:16 PM
Chromium	6.91	0.341		mg/Kg-dry	1	9/9/2011 9:26:16 PM
Lead	3.07	1.37		mg/Kg-dry	1	9/9/2011 9:26:16 PM
Selenium	ND	1.37		mg/Kg-dry	1	9/9/2011 9:26:16 PM
Silver	1.73	1.37		mg/Kg-dry	1	9/9/2011 9:26:16 PM
MERCURY, TOTAL		SW7471				Analyst: eh
Mercury	0.0381	0.00873		mg/Kg-dry	1	9/12/2011
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: das
1-Methylnaphthalene	ND	6.74		µg/Kg-dry	1	9/15/2011 1:21:00 AM
2-Methylnaphthalene	ND	6.74		µg/Kg-dry	1	9/15/2011 1:21:00 AM
Acenaphthene	ND	6.74		µg/Kg-dry	1	9/15/2011 1:21:00 AM
Acenaphthylene	ND	6.74		µg/Kg-dry	1	9/15/2011 1:21:00 AM
Anthracene	ND	6.74		µg/Kg-dry	1	9/15/2011 1:21:00 AM
Benz(a)anthracene	ND	6.74		µg/Kg-dry	1	9/15/2011 1:21:00 AM
Benzo(a)pyrene	ND	6.74		µg/Kg-dry	1	9/15/2011 1:21:00 AM
Benzo(b)fluoranthene	ND	6.74		µg/Kg-dry	1	9/15/2011 1:21:00 AM
Benzo(g,h,i)perylene	8.08	6.74		µg/Kg-dry	1	9/15/2011 1:21:00 AM
Benzo(k)fluoranthene	ND	6.74		µg/Kg-dry	1	9/15/2011 1:21:00 AM
Chrysene	ND	6.74		µg/Kg-dry	1	9/15/2011 1:21:00 AM
Dibenz(a,h)anthracene	ND	6.74		µg/Kg-dry	1	9/15/2011 1:21:00 AM
Fluoranthene	ND	6.74		µg/Kg-dry	1	9/15/2011 1:21:00 AM
Fluorene	ND	6.74		µg/Kg-dry	1	9/15/2011 1:21:00 AM
Indeno(1,2,3-cd)pyrene	ND	6.74		µg/Kg-dry	1	9/15/2011 1:21:00 AM
Naphthalene	ND	6.74		µg/Kg-dry	1	9/15/2011 1:21:00 AM
Phenanthrene	ND	6.74		µg/Kg-dry	1	9/15/2011 1:21:00 AM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-15

Client Sample ID: SP-3
Collection Date: 9/8/2011 10:30:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LOW LEVEL PAH BY GC/MS	8270SIM					Analyst: das
Pyrene	ND	6.74		µg/Kg-dry	1	9/15/2011 1:21:00 AM
Surr: 2-Fluorobiphenyl	67.0	42.6-128		%REC	1	9/15/2011 1:21:00 AM
Surr: Nitrobenzene-d5	55.7	21.7-155		%REC	1	9/15/2011 1:21:00 AM
Surr: p-Terphenyl-d14	88.0	44.9-155		%REC	1	9/15/2011 1:21:00 AM
PCB'S IN SOIL	SW8082					Analyst: jrp
Aroclor 1016	ND	0.336		µg/Kg-dry	1	9/12/2011
Aroclor 1221	ND	0.336		µg/Kg-dry	1	9/12/2011
Aroclor 1232	ND	0.336		µg/Kg-dry	1	9/12/2011
Aroclor 1242	ND	0.336		µg/Kg-dry	1	9/12/2011
Aroclor 1248	ND	0.336		µg/Kg-dry	1	9/12/2011
Aroclor 1254	ND	0.336		µg/Kg-dry	1	9/12/2011
Aroclor 1260	ND	0.336		µg/Kg-dry	1	9/12/2011
Aroclor 1262	ND	0.336		µg/Kg-dry	1	9/12/2011
Aroclor 1268	ND	0.336		µg/Kg-dry	1	9/12/2011
Surr: Decachlorobiphenyl	123	56.5-130		%REC	1	9/12/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-16

Client Sample ID: SS-21-0.5
Collection Date: 9/8/2011 11:40:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrj
Diesel	ND	18.1		mg/Kg-dry	1	9/15/2011
Lube Oil	ND	60.3		mg/Kg-dry	1	9/15/2011
Surr: o-Terphenyl	80.1	50-150		%REC	1	9/15/2011
NWTPH-GX		NWTPH-GX				Analyst: jrj
Gasoline	ND	3.02		mg/Kg-dry	1	9/9/2011
Surr: 4-Bromofluorobenzene	64.6	50-150		%REC	1	9/9/2011
TOTAL METALS BY ICP		E6010				Analyst: zau
Arsenic	8.30	1.63		mg/Kg-dry	1	9/9/2011 9:31:15 PM
Barium	151	0.815	B	mg/Kg-dry	1	9/9/2011 9:31:15 PM
Cadmium	ND	0.0815		mg/Kg-dry	1	9/9/2011 9:31:15 PM
Chromium	21.2	0.408		mg/Kg-dry	1	9/9/2011 9:31:15 PM
Lead	4.85	1.63		mg/Kg-dry	1	9/9/2011 9:31:15 PM
Selenium	ND	1.63		mg/Kg-dry	1	9/9/2011 9:31:15 PM
Silver	2.54	1.63		mg/Kg-dry	1	9/9/2011 9:31:15 PM
MERCURY, TOTAL		SW7471				Analyst: eh
Mercury	0.0111	0.0104		mg/Kg-dry	1	9/12/2011
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: das
1-Methylnaphthalene	ND	8.05		µg/Kg-dry	1	9/15/2011 12:28:00 AM
2-Methylnaphthalene	ND	8.05		µg/Kg-dry	1	9/15/2011 12:28:00 AM
Acenaphthene	ND	8.05		µg/Kg-dry	1	9/15/2011 12:28:00 AM
Acenaphthylene	ND	8.05		µg/Kg-dry	1	9/15/2011 12:28:00 AM
Anthracene	ND	8.05		µg/Kg-dry	1	9/15/2011 12:28:00 AM
Benz(a)anthracene	ND	8.05		µg/Kg-dry	1	9/15/2011 12:28:00 AM
Benzo(a)pyrene	ND	8.05		µg/Kg-dry	1	9/15/2011 12:28:00 AM
Benzo(b)fluoranthene	ND	8.05		µg/Kg-dry	1	9/15/2011 12:28:00 AM
Benzo(g,h,i)perylene	ND	8.05		µg/Kg-dry	1	9/15/2011 12:28:00 AM
Benzo(k)fluoranthene	ND	8.05		µg/Kg-dry	1	9/15/2011 12:28:00 AM
Chrysene	ND	8.05		µg/Kg-dry	1	9/15/2011 12:28:00 AM
Dibenz(a,h)anthracene	ND	8.05		µg/Kg-dry	1	9/15/2011 12:28:00 AM
Fluoranthene	ND	8.05		µg/Kg-dry	1	9/15/2011 12:28:00 AM
Fluorene	ND	8.05		µg/Kg-dry	1	9/15/2011 12:28:00 AM
Indeno(1,2,3-cd)pyrene	ND	8.05		µg/Kg-dry	1	9/15/2011 12:28:00 AM
Naphthalene	ND	8.05		µg/Kg-dry	1	9/15/2011 12:28:00 AM
Phenanthrene	ND	8.05		µg/Kg-dry	1	9/15/2011 12:28:00 AM
Pyrene	ND	8.05		µg/Kg-dry	1	9/15/2011 12:28:00 AM
Surr: 2-Fluorobiphenyl	22.7	42.6-128	S	%REC	1	9/15/2011 12:28:00 AM
Surr: Nitrobenzene-d5	33.8	21.7-155		%REC	1	9/15/2011 12:28:00 AM
Surr: p-Terphenyl-d14	89.1	44.9-155		%REC	1	9/15/2011 12:28:00 AM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-16

Client Sample ID: SS-21-0.5
Collection Date: 9/8/2011 11:40:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: rkg		
1,1,1,2-Tetrachloroethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
1,1,1-Trichloroethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
1,1,2,2-Tetrachloroethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
1,1,2-Trichloroethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
1,1-Dichloroethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
1,1-Dichloroethene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
1,1-Dichloropropene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
1,2,3-Trichlorobenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
1,2,3-Trichloropropane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
1,2,4-Trichlorobenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
1,2,4-Trimethylbenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
1,2-Dibromo-3-chloropropane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
1,2-Dibromoethane	ND	6.03		µg/Kg-dry	1	9/9/2011 4:42:00 PM
1,2-Dichlorobenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
1,2-Dichloroethane	ND	6.03		µg/Kg-dry	1	9/9/2011 4:42:00 PM
1,2-Dichloropropane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
1,3,5-Trimethylbenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
1,3-Dichlorobenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
1,3-Dichloropropane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
1,4-Dichlorobenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
2,2-Dichloropropane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
2-Butanone	ND	24.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
2-Chlorotoluene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
2-Hexanone	ND	24.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
4-Chlorotoluene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
4-Isopropyltoluene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
4-Methyl-2-pentanone	ND	24.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Acetone	ND	60.3		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Benzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Bromobenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Bromochloromethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Bromodichloromethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Bromoform	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Bromomethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Carbon disulfide	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Carbon tetrachloride	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Chlorobenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Chloroethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Chloroform	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Chloromethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
cis-1,2-Dichloroethene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-16

Client Sample ID: SS-21-0.5
Collection Date: 9/8/2011 11:40:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS						
		SW8260B				Analyst: rk
cis-1,3-Dichloropropene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Dibromochloromethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Dibromomethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Dichlorodifluoromethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Ethylbenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Hexachlorobutadiene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Isopropylbenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
m,p-Xylene	ND	24.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Methyl tert-butyl ether	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Methylene chloride	ND	60.3		µg/Kg-dry	1	9/9/2011 4:42:00 PM
n-Butylbenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
n-Propylbenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Naphthalene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
o-Xylene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
sec-Butylbenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Styrene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
tert-Butylbenzene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Tetrachloroethene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Toluene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
trans-1,2-Dichloroethene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
trans-1,3-Dichloropropene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Trichloroethene	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Trichlorofluoromethane	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Vinyl chloride	ND	12.1		µg/Kg-dry	1	9/9/2011 4:42:00 PM
Surr: 1,2-Dichloroethane-d4	90.5	71.5-112		%REC	1	9/9/2011 4:42:00 PM
Surr: 4-Bromofluorobenzene	93.3	75.7-122		%REC	1	9/9/2011 4:42:00 PM
Surr: Dibromofluoromethane	109	64.3-124		%REC	1	9/9/2011 4:42:00 PM
Surr: Toluene-d8	118	74.9-120		%REC	1	9/9/2011 4:42:00 PM
PCB'S IN SOIL						
		SW8082				Analyst: jr
Aroclor 1016	ND	0.402		µg/Kg-dry	1	9/12/2011
Aroclor 1221	ND	0.402		µg/Kg-dry	1	9/12/2011
Aroclor 1232	ND	0.402		µg/Kg-dry	1	9/12/2011
Aroclor 1242	ND	0.402		µg/Kg-dry	1	9/12/2011
Aroclor 1248	ND	0.402		µg/Kg-dry	1	9/12/2011
Aroclor 1254	ND	0.402		µg/Kg-dry	1	9/12/2011
Aroclor 1260	ND	0.402		µg/Kg-dry	1	9/12/2011
Aroclor 1262	ND	0.402		µg/Kg-dry	1	9/12/2011
Aroclor 1268	ND	0.402		µg/Kg-dry	1	9/12/2011
Surr: Decachlorobiphenyl	57.8	56.5-130		%REC	1	9/12/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-17

Client Sample ID: SS-22-1
Collection Date: 9/8/2011 12:00:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrj
Diesel	834	16.9	A1	mg/Kg-dry	1	9/15/2011
Lube Oil	1470	56.4	A2	mg/Kg-dry	1	9/15/2011
Surr: o-Terphenyl	143	50-150		%REC	1	9/15/2011
NWTPH-GX		NWTPH-GX				Analyst: jrj
Gasoline	ND	2.82		mg/Kg-dry	1	9/9/2011
Surr: 4-Bromofluorobenzene	65.7	50-150		%REC	1	9/9/2011
TOTAL METALS BY ICP		E6010				Analyst: zau
Arsenic	4.88	1.82		mg/Kg-dry	1	9/9/2011 9:36:27 PM
Barium	163	0.909	B	mg/Kg-dry	1	9/9/2011 9:36:27 PM
Cadmium	0.264	0.0909		mg/Kg-dry	1	9/9/2011 9:36:27 PM
Chromium	14.5	0.455		mg/Kg-dry	1	9/9/2011 9:36:27 PM
Lead	4.15	1.82		mg/Kg-dry	1	9/9/2011 9:36:27 PM
Selenium	ND	1.82		mg/Kg-dry	1	9/9/2011 9:36:27 PM
Silver	ND	1.82		mg/Kg-dry	1	9/9/2011 9:36:27 PM
MERCURY, TOTAL		SW7471				Analyst: zau
Mercury	ND	0.0188		mg/Kg-dry	1	9/14/2011
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: das
1-Methylnaphthalene	ND	7.52		µg/Kg-dry	1	9/15/2011 12:55:00 AM
2-Methylnaphthalene	ND	7.52		µg/Kg-dry	1	9/15/2011 12:55:00 AM
Acenaphthene	ND	7.52		µg/Kg-dry	1	9/15/2011 12:55:00 AM
Acenaphthylene	ND	7.52		µg/Kg-dry	1	9/15/2011 12:55:00 AM
Anthracene	ND	7.52		µg/Kg-dry	1	9/15/2011 12:55:00 AM
Benz(a)anthracene	ND	7.52		µg/Kg-dry	1	9/15/2011 12:55:00 AM
Benzo(a)pyrene	ND	7.52		µg/Kg-dry	1	9/15/2011 12:55:00 AM
Benzo(b)fluoranthene	ND	7.52		µg/Kg-dry	1	9/15/2011 12:55:00 AM
Benzo(g,h,i)perylene	ND	7.52		µg/Kg-dry	1	9/15/2011 12:55:00 AM
Benzo(k)fluoranthene	ND	7.52		µg/Kg-dry	1	9/15/2011 12:55:00 AM
Chrysene	ND	7.52		µg/Kg-dry	1	9/15/2011 12:55:00 AM
Dibenz(a,h)anthracene	ND	7.52		µg/Kg-dry	1	9/15/2011 12:55:00 AM
Fluoranthene	ND	7.52		µg/Kg-dry	1	9/15/2011 12:55:00 AM
Fluorene	ND	7.52		µg/Kg-dry	1	9/15/2011 12:55:00 AM
Indeno(1,2,3-cd)pyrene	ND	7.52		µg/Kg-dry	1	9/15/2011 12:55:00 AM
Naphthalene	ND	7.52		µg/Kg-dry	1	9/15/2011 12:55:00 AM
Phenanthrene	ND	7.52		µg/Kg-dry	1	9/15/2011 12:55:00 AM
Pyrene	ND	7.52		µg/Kg-dry	1	9/15/2011 12:55:00 AM
Surr: 2-Fluorobiphenyl	39.5	42.6-128	S	%REC	1	9/15/2011 12:55:00 AM
Surr: Nitrobenzene-d5	31.8	21.7-155		%REC	1	9/15/2011 12:55:00 AM
Surr: p-Terphenyl-d14	83.5	44.9-155		%REC	1	9/15/2011 12:55:00 AM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-17

Client Sample ID: SS-22-1
Collection Date: 9/8/2011 12:00:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: rkg		
1,1,1,2-Tetrachloroethane	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
1,1,1-Trichloroethane	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
1,1,2,2-Tetrachloroethane	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
1,1,2-Trichloroethane	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
1,1-Dichloroethane	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
1,1-Dichloroethene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
1,1-Dichloropropene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
1,2,3-Trichlorobenzene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
1,2,3-Trichloropropane	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
1,2,4-Trichlorobenzene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
1,2,4-Trimethylbenzene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
1,2-Dibromo-3-chloropropane	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
1,2-Dibromoethane	ND	5.64		µg/Kg-dry	1	9/9/2011 5:17:00 PM
1,2-Dichlorobenzene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
1,2-Dichloroethane	ND	5.64		µg/Kg-dry	1	9/9/2011 5:17:00 PM
1,2-Dichloropropane	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
1,3,5-Trimethylbenzene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
1,3-Dichlorobenzene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
1,3-Dichloropropane	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
1,4-Dichlorobenzene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
2,2-Dichloropropane	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
2-Butanone	ND	22.5		µg/Kg-dry	1	9/9/2011 5:17:00 PM
2-Chlorotoluene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
2-Hexanone	ND	22.5		µg/Kg-dry	1	9/9/2011 5:17:00 PM
4-Chlorotoluene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
4-Isopropyltoluene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
4-Methyl-2-pentanone	ND	22.5		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Acetone	ND	56.4		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Benzene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Bromobenzene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Bromochloromethane	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Bromodichloromethane	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Bromoform	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Bromomethane	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Carbon disulfide	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Carbon tetrachloride	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Chlorobenzene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Chloroethane	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Chloroform	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Chloromethane	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
cis-1,2-Dichloroethene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-17

Client Sample ID: SS-22-1
Collection Date: 9/8/2011 12:00:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS						
		SW8260B				Analyst: rkg
cis-1,3-Dichloropropene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Dibromochloromethane	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Dibromomethane	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Dichlorodifluoromethane	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Ethylbenzene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Hexachlorobutadiene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Isopropylbenzene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
m,p-Xylene	ND	22.5		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Methyl tert-butyl ether	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Methylene chloride	ND	56.4		µg/Kg-dry	1	9/9/2011 5:17:00 PM
n-Butylbenzene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
n-Propylbenzene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Naphthalene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
o-Xylene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
sec-Butylbenzene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Styrene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
tert-Butylbenzene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Tetrachloroethene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Toluene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
trans-1,2-Dichloroethene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
trans-1,3-Dichloropropene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Trichloroethene	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Trichlorofluoromethane	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Vinyl chloride	ND	11.3		µg/Kg-dry	1	9/9/2011 5:17:00 PM
Surr: 1,2-Dichloroethane-d4	90.4	71.5-112		%REC	1	9/9/2011 5:17:00 PM
Surr: 4-Bromofluorobenzene	93.5	75.7-122		%REC	1	9/9/2011 5:17:00 PM
Surr: Dibromofluoromethane	109	64.3-124		%REC	1	9/9/2011 5:17:00 PM
Surr: Toluene-d8	114	74.9-120		%REC	1	9/9/2011 5:17:00 PM
PCB'S IN SOIL						
		SW8082				Analyst: jrp
Aroclor 1016	ND	0.375		µg/Kg-dry	1	9/12/2011
Aroclor 1221	ND	0.375		µg/Kg-dry	1	9/12/2011
Aroclor 1232	ND	0.375		µg/Kg-dry	1	9/12/2011
Aroclor 1242	ND	0.375		µg/Kg-dry	1	9/12/2011
Aroclor 1248	ND	0.375		µg/Kg-dry	1	9/12/2011
Aroclor 1254	ND	0.375		µg/Kg-dry	1	9/12/2011
Aroclor 1260	ND	0.375		µg/Kg-dry	1	9/12/2011
Aroclor 1262	ND	0.375		µg/Kg-dry	1	9/12/2011
Aroclor 1268	ND	0.375		µg/Kg-dry	1	9/12/2011
Surr: Decachlorobiphenyl	98.1	56.5-130		%REC	1	9/12/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-18

Client Sample ID: SS-23-1
Collection Date: 9/8/2011 12:15:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrj
Diesel	207	15.7	A1,K	mg/Kg-dry	1	9/15/2011
Lube Oil	1470	52.3	A2	mg/Kg-dry	1	9/15/2011
Surr: o-Terphenyl	78.6	50-150		%REC	1	9/15/2011
NWTPH-GX		NWTPH-GX				Analyst: jrj
Gasoline	ND	2.62		mg/Kg-dry	1	9/9/2011
Surr: 4-Bromofluorobenzene	68.9	50-150		%REC	1	9/9/2011
TOTAL METALS BY ICP		E6010				Analyst: zau
Arsenic	5.12	1.34		mg/Kg-dry	1	9/9/2011 9:41:26 PM
Barium	65.5	0.671	B	mg/Kg-dry	1	9/9/2011 9:41:26 PM
Cadmium	ND	0.0671		mg/Kg-dry	1	9/9/2011 9:41:26 PM
Chromium	9.97	0.335		mg/Kg-dry	1	9/9/2011 9:41:26 PM
Lead	14.9	1.34		mg/Kg-dry	1	9/9/2011 9:41:26 PM
Selenium	ND	1.34		mg/Kg-dry	1	9/9/2011 9:41:26 PM
Silver	1.76	1.34		mg/Kg-dry	1	9/9/2011 9:41:26 PM
MERCURY, TOTAL		SW7471				Analyst: eh
Mercury	0.0738	0.0125		mg/Kg-dry	1	9/12/2011
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: das
1-Methylnaphthalene	20.2	6.98		µg/Kg-dry	1	9/15/2011 6:30:00 PM
2-Methylnaphthalene	23.0	6.98		µg/Kg-dry	1	9/15/2011 6:30:00 PM
Acenaphthene	ND	6.98		µg/Kg-dry	1	9/15/2011 6:30:00 PM
Acenaphthylene	35.6	6.98		µg/Kg-dry	1	9/15/2011 6:30:00 PM
Anthracene	71.1	6.98		µg/Kg-dry	1	9/15/2011 6:30:00 PM
Benz(a)anthracene	66.2	34.9		µg/Kg-dry	5	9/17/2011 5:20:00 PM
Benzo(a)pyrene	109	6.98		µg/Kg-dry	1	9/15/2011 6:30:00 PM
Benzo(b)fluoranthene	55.8	6.98		µg/Kg-dry	1	9/15/2011 6:30:00 PM
Benzo(g,h,i)perylene	21.6	6.98		µg/Kg-dry	1	9/15/2011 6:30:00 PM
Benzo(k)fluoranthene	66.9	6.98		µg/Kg-dry	1	9/15/2011 6:30:00 PM
Chrysene	101	34.9		µg/Kg-dry	5	9/17/2011 5:20:00 PM
Dibenz(a,h)anthracene	ND	6.98		µg/Kg-dry	1	9/15/2011 6:30:00 PM
Fluoranthene	41.1	6.98		µg/Kg-dry	1	9/15/2011 6:30:00 PM
Fluorene	13.2	6.98		µg/Kg-dry	1	9/15/2011 6:30:00 PM
Indeno(1,2,3-cd)pyrene	ND	6.98		µg/Kg-dry	1	9/15/2011 6:30:00 PM
Naphthalene	23.0	6.98		µg/Kg-dry	1	9/15/2011 6:30:00 PM
Phenanthrene	41.1	6.98		µg/Kg-dry	1	9/15/2011 6:30:00 PM
Pyrene	94.1	34.9		µg/Kg-dry	5	9/17/2011 5:20:00 PM
Surr: 2-Fluorobiphenyl	70.5	42.6-128		%REC	1	9/15/2011 6:30:00 PM
Surr: Nitrobenzene-d5	57.7	21.7-155		%REC	1	9/15/2011 6:30:00 PM
Surr: p-Terphenyl-d14	106	44.9-155		%REC	5	9/17/2011 5:20:00 PM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-18

Client Sample ID: SS-23-1
Collection Date: 9/8/2011 12:15:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: rkg		
1,1,1,2-Tetrachloroethane	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
1,1,1-Trichloroethane	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
1,1,2,2-Tetrachloroethane	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
1,1,2-Trichloroethane	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
1,1-Dichloroethane	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
1,1-Dichloroethene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
1,1-Dichloropropene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
1,2,3-Trichlorobenzene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
1,2,3-Trichloropropane	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
1,2,4-Trichlorobenzene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
1,2,4-Trimethylbenzene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
1,2-Dibromo-3-chloropropane	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
1,2-Dibromoethane	ND	5.23		µg/Kg-dry	1	9/9/2011 5:53:00 PM
1,2-Dichlorobenzene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
1,2-Dichloroethane	ND	5.23		µg/Kg-dry	1	9/9/2011 5:53:00 PM
1,2-Dichloropropane	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
1,3,5-Trimethylbenzene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
1,3-Dichlorobenzene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
1,3-Dichloropropane	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
1,4-Dichlorobenzene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
2,2-Dichloropropane	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
2-Butanone	ND	20.9		µg/Kg-dry	1	9/9/2011 5:53:00 PM
2-Chlorotoluene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
2-Hexanone	ND	20.9		µg/Kg-dry	1	9/9/2011 5:53:00 PM
4-Chlorotoluene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
4-Isopropyltoluene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
4-Methyl-2-pentanone	ND	20.9		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Acetone	52.7	52.3		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Benzene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Bromobenzene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Bromochloromethane	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Bromodichloromethane	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Bromoform	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Bromomethane	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Carbon disulfide	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Carbon tetrachloride	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Chlorobenzene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Chloroethane	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Chloroform	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Chloromethane	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
cis-1,2-Dichloroethene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-18

Client Sample ID: SS-23-1
Collection Date: 9/8/2011 12:15:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS						
		SW8260B				Analyst: rk
cis-1,3-Dichloropropene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Dibromochloromethane	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Dibromomethane	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Dichlorodifluoromethane	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Ethylbenzene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Hexachlorobutadiene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Isopropylbenzene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
m,p-Xylene	ND	20.9		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Methyl tert-butyl ether	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Methylene chloride	ND	52.3		µg/Kg-dry	1	9/9/2011 5:53:00 PM
n-Butylbenzene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
n-Propylbenzene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Naphthalene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
o-Xylene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
sec-Butylbenzene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Styrene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
tert-Butylbenzene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Tetrachloroethene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Toluene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
trans-1,2-Dichloroethene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
trans-1,3-Dichloropropene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Trichloroethene	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Trichlorofluoromethane	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Vinyl chloride	ND	10.5		µg/Kg-dry	1	9/9/2011 5:53:00 PM
Surr: 1,2-Dichloroethane-d4	93.8	71.5-112		%REC	1	9/9/2011 5:53:00 PM
Surr: 4-Bromofluorobenzene	93.6	75.7-122		%REC	1	9/9/2011 5:53:00 PM
Surr: Dibromofluoromethane	107	64.3-124		%REC	1	9/9/2011 5:53:00 PM
Surr: Toluene-d8	114	74.9-120		%REC	1	9/9/2011 5:53:00 PM
PCB'S IN SOIL						
		SW8082				Analyst: jr
Aroclor 1016	ND	0.348		µg/Kg-dry	1	9/12/2011
Aroclor 1221	ND	0.348		µg/Kg-dry	1	9/12/2011
Aroclor 1232	ND	0.348		µg/Kg-dry	1	9/12/2011
Aroclor 1242	ND	0.348		µg/Kg-dry	1	9/12/2011
Aroclor 1248	ND	0.348		µg/Kg-dry	1	9/12/2011
Aroclor 1254	ND	0.348		µg/Kg-dry	1	9/12/2011
Aroclor 1260	28.6	0.348	CN	µg/Kg-dry	1	9/12/2011
Aroclor 1262	ND	0.348		µg/Kg-dry	1	9/12/2011
Aroclor 1268	ND	0.348		µg/Kg-dry	1	9/12/2011
Surr: Decachlorobiphenyl	63.7	56.5-130		%REC	1	9/12/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-19

Client Sample ID: SS-24-1
Collection Date: 9/8/2011 12:30:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrp
Diesel	219	16.4	A1,K	mg/Kg-dry	1	9/15/2011
Lube Oil	1310	54.8	A2	mg/Kg-dry	1	9/15/2011
Surr: o-Terphenyl	87.9	50-150		%REC	1	9/15/2011
NWTPH-GX		NWTPH-GX				Analyst: jrp
Gasoline	ND	2.74		mg/Kg-dry	1	9/9/2011
Surr: 4-Bromofluorobenzene	67.8	50-150		%REC	1	9/9/2011
TOTAL METALS BY ICP		E6010				Analyst: zau
Arsenic	7.13	1.96		mg/Kg-dry	1	9/9/2011 9:46:25 PM
Barium	95.9	0.979	B	mg/Kg-dry	1	9/9/2011 9:46:25 PM
Cadmium	ND	0.0979		mg/Kg-dry	1	9/9/2011 9:46:25 PM
Chromium	13.4	0.490		mg/Kg-dry	1	9/9/2011 9:46:25 PM
Lead	9.29	1.96		mg/Kg-dry	1	9/9/2011 9:46:25 PM
Selenium	ND	1.96		mg/Kg-dry	1	9/9/2011 9:46:25 PM
Silver	2.29	1.96		mg/Kg-dry	1	9/9/2011 9:46:25 PM
MERCURY, TOTAL		SW7471				Analyst: eh
Mercury	0.0415	0.0110		mg/Kg-dry	1	9/12/2011
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: das
1-Methylnaphthalene	ND	7.31		µg/Kg-dry	1	9/15/2011 6:56:00 PM
2-Methylnaphthalene	8.77	7.31		µg/Kg-dry	1	9/15/2011 6:56:00 PM
Acenaphthene	ND	7.31		µg/Kg-dry	1	9/15/2011 6:56:00 PM
Acenaphthylene	ND	7.31		µg/Kg-dry	1	9/15/2011 6:56:00 PM
Anthracene	ND	7.31		µg/Kg-dry	1	9/15/2011 6:56:00 PM
Benz(a)anthracene	ND	36.6	Q	µg/Kg-dry	5	9/17/2011 6:12:00 PM
Benzo(a)pyrene	40.2	36.6		µg/Kg-dry	5	9/17/2011 6:12:00 PM
Benzo(b)fluoranthene	43.9	36.6		µg/Kg-dry	5	9/17/2011 6:12:00 PM
Benzo(g,h,i)perylene	ND	36.6	Q	µg/Kg-dry	5	9/17/2011 6:12:00 PM
Benzo(k)fluoranthene	ND	36.6	Q	µg/Kg-dry	5	9/17/2011 6:12:00 PM
Chrysene	ND	36.6	Q	µg/Kg-dry	5	9/17/2011 6:12:00 PM
Dibenz(a,h)anthracene	ND	36.6	Q	µg/Kg-dry	5	9/17/2011 6:12:00 PM
Fluoranthene	27.0	7.31		µg/Kg-dry	1	9/15/2011 6:56:00 PM
Fluorene	ND	7.31		µg/Kg-dry	1	9/15/2011 6:56:00 PM
Indeno(1,2,3-cd)pyrene	ND	36.6	Q	µg/Kg-dry	5	9/17/2011 6:12:00 PM
Naphthalene	18.3	7.31		µg/Kg-dry	1	9/15/2011 6:56:00 PM
Phenanthrene	26.3	7.31		µg/Kg-dry	1	9/15/2011 6:56:00 PM
Pyrene	ND	36.6	Q	µg/Kg-dry	5	9/17/2011 6:12:00 PM
Surr: 2-Fluorobiphenyl	57.2	42.6-128		%REC	1	9/15/2011 6:56:00 PM
Surr: Nitrobenzene-d5	50.1	21.7-155		%REC	1	9/15/2011 6:56:00 PM
Surr: p-Terphenyl-d14	82.8	44.9-155		%REC	5	9/17/2011 6:12:00 PM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-19

Client Sample ID: SS-24-1
Collection Date: 9/8/2011 12:30:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: rkg		
1,1,1,2-Tetrachloroethane	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
1,1,1-Trichloroethane	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
1,1,2,2-Tetrachloroethane	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
1,1,2-Trichloroethane	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
1,1-Dichloroethane	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
1,1-Dichloroethene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
1,1-Dichloropropene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
1,2,3-Trichlorobenzene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
1,2,3-Trichloropropane	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
1,2,4-Trichlorobenzene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
1,2,4-Trimethylbenzene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
1,2-Dibromo-3-chloropropane	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
1,2-Dibromoethane	ND	5.48		µg/Kg-dry	1	9/9/2011 6:29:00 PM
1,2-Dichlorobenzene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
1,2-Dichloroethane	ND	5.48		µg/Kg-dry	1	9/9/2011 6:29:00 PM
1,2-Dichloropropane	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
1,3,5-Trimethylbenzene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
1,3-Dichlorobenzene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
1,3-Dichloropropane	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
1,4-Dichlorobenzene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
2,2-Dichloropropane	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
2-Butanone	ND	21.9		µg/Kg-dry	1	9/9/2011 6:29:00 PM
2-Chlorotoluene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
2-Hexanone	ND	21.9		µg/Kg-dry	1	9/9/2011 6:29:00 PM
4-Chlorotoluene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
4-Isopropyltoluene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
4-Methyl-2-pentanone	ND	21.9		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Acetone	ND	54.8		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Benzene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Bromobenzene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Bromochloromethane	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Bromodichloromethane	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Bromoform	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Bromomethane	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Carbon disulfide	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Carbon tetrachloride	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Chlorobenzene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Chloroethane	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Chloroform	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Chloromethane	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
cis-1,2-Dichloroethene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-19

Client Sample ID: SS-24-1
Collection Date: 9/8/2011 12:30:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: rk		
cis-1,3-Dichloropropene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Dibromochloromethane	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Dibromomethane	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Dichlorodifluoromethane	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Ethylbenzene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Hexachlorobutadiene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Isopropylbenzene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
m,p-Xylene	ND	21.9		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Methyl tert-butyl ether	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Methylene chloride	ND	54.8		µg/Kg-dry	1	9/9/2011 6:29:00 PM
n-Butylbenzene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
n-Propylbenzene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Naphthalene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
o-Xylene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
sec-Butylbenzene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Styrene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
tert-Butylbenzene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Tetrachloroethene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Toluene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
trans-1,2-Dichloroethene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
trans-1,3-Dichloropropene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Trichloroethene	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Trichlorofluoromethane	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Vinyl chloride	ND	11.0		µg/Kg-dry	1	9/9/2011 6:29:00 PM
Surr: 1,2-Dichloroethane-d4	94.3	71.5-112		%REC	1	9/9/2011 6:29:00 PM
Surr: 4-Bromofluorobenzene	92.6	75.7-122		%REC	1	9/9/2011 6:29:00 PM
Surr: Dibromofluoromethane	106	64.3-124		%REC	1	9/9/2011 6:29:00 PM
Surr: Toluene-d8	112	74.9-120		%REC	1	9/9/2011 6:29:00 PM
PCB'S IN SOIL		SW8082		Analyst: jr		
Aroclor 1016	ND	0.365		µg/Kg-dry	1	9/12/2011
Aroclor 1221	ND	0.365		µg/Kg-dry	1	9/12/2011
Aroclor 1232	ND	0.365		µg/Kg-dry	1	9/12/2011
Aroclor 1242	ND	0.365		µg/Kg-dry	1	9/12/2011
Aroclor 1248	ND	0.365		µg/Kg-dry	1	9/12/2011
Aroclor 1254	ND	0.365		µg/Kg-dry	1	9/12/2011
Aroclor 1260	143	0.365	CN	µg/Kg-dry	1	9/12/2011
Aroclor 1262	ND	0.365		µg/Kg-dry	1	9/12/2011
Aroclor 1268	ND	0.365		µg/Kg-dry	1	9/12/2011
Surr: Decachlorobiphenyl	67.2	56.5-130		%REC	1	9/12/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-20

Client Sample ID: SS-10-1
Collection Date: 9/7/2011 9:20:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrj
Diesel	ND	16.1		mg/Kg-dry	1	9/15/2011
Lube Oil	ND	53.8		mg/Kg-dry	1	9/15/2011
Surr: o-Terphenyl	87.5	50-150		%REC	1	9/15/2011
TOTAL METALS BY ICP		E6010				Analyst: zau
Arsenic	3.37	1.41		mg/Kg-dry	1	9/9/2011 9:51:23 PM
Barium	104	0.707	B	mg/Kg-dry	1	9/9/2011 9:51:23 PM
Cadmium	ND	0.0707		mg/Kg-dry	1	9/9/2011 9:51:23 PM
Chromium	5.94	0.354		mg/Kg-dry	1	9/9/2011 9:51:23 PM
Lead	3.80	1.41		mg/Kg-dry	1	9/9/2011 9:51:23 PM
Selenium	ND	1.41		mg/Kg-dry	1	9/9/2011 9:51:23 PM
Silver	5.02	1.41		mg/Kg-dry	1	9/9/2011 9:51:23 PM
MERCURY, TOTAL		SW7471				Analyst: eh
Mercury	0.0200	0.0112		mg/Kg-dry	1	9/12/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-21

Client Sample ID: SS-11-2
Collection Date: 9/7/2011 9:30:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX						Analyst: jrj
Diesel	70.9	21.2	A1,K	mg/Kg-dry	1	9/15/2011
Lube Oil	545	70.7	A2	mg/Kg-dry	1	9/15/2011
Surr: o-Terphenyl	58.5	50-150		%REC	1	9/15/2011
TOTAL METALS BY ICP						Analyst: zau
Arsenic	5.37	2.14		mg/Kg-dry	1	9/9/2011 9:56:35 PM
Barium	76.3	1.07	B	mg/Kg-dry	1	9/9/2011 9:56:35 PM
Cadmium	ND	0.107		mg/Kg-dry	1	9/9/2011 9:56:35 PM
Chromium	8.28	0.536		mg/Kg-dry	1	9/9/2011 9:56:35 PM
Lead	7.11	2.14		mg/Kg-dry	1	9/9/2011 9:56:35 PM
Selenium	ND	2.14		mg/Kg-dry	1	9/9/2011 9:56:35 PM
Silver	ND	2.14		mg/Kg-dry	1	9/9/2011 9:56:35 PM
MERCURY, TOTAL						Analyst: eh
Mercury	0.0165	0.0131		mg/Kg-dry	1	9/12/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-22

Client Sample ID: SS-12-1
Collection Date: 9/7/2011 9:45:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX						Analyst: jrj
Diesel	53.2	19.6	A1	mg/Kg-dry	1	9/15/2011
Lube Oil	203	65.2	A2	mg/Kg-dry	1	9/15/2011
Surr: o-Terphenyl	74.8	50-150		%REC	1	9/15/2011
TOTAL METALS BY ICP						Analyst: zau
Arsenic	6.61	2.17		mg/Kg-dry	1	9/9/2011 10:01:34 PM
Barium	133	1.09	B	mg/Kg-dry	1	9/9/2011 10:01:34 PM
Cadmium	0.272	0.109		mg/Kg-dry	1	9/9/2011 10:01:34 PM
Chromium	13.7	0.543		mg/Kg-dry	1	9/9/2011 10:01:34 PM
Lead	42.4	2.17		mg/Kg-dry	1	9/9/2011 10:01:34 PM
Selenium	ND	2.17		mg/Kg-dry	1	9/9/2011 10:01:34 PM
Silver	ND	2.17		mg/Kg-dry	1	9/9/2011 10:01:34 PM
MERCURY, TOTAL						Analyst: zau
Mercury	0.0566	0.0198		mg/Kg-dry	1	9/14/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-23

Client Sample ID: SS-13-1
Collection Date: 9/7/2011 9:55:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrj
Diesel	ND	17.1		mg/Kg-dry	1	9/15/2011
Lube Oil	ND	56.9		mg/Kg-dry	1	9/15/2011
Surr: o-Terphenyl	91.9	50-150		%REC	1	9/15/2011
TOTAL METALS BY ICP		E6010				Analyst: zau
Arsenic	7.30	1.42		mg/Kg-dry	1	9/9/2011 10:26:52 PM
Barium	78.6	0.711	B	mg/Kg-dry	1	9/9/2011 10:26:52 PM
Cadmium	ND	0.0711		mg/Kg-dry	1	9/9/2011 10:26:52 PM
Chromium	10.7	0.356		mg/Kg-dry	1	9/9/2011 10:26:52 PM
Lead	5.75	1.42		mg/Kg-dry	1	9/9/2011 10:26:52 PM
Selenium	ND	1.42		mg/Kg-dry	1	9/9/2011 10:26:52 PM
Silver	1.43	1.42		mg/Kg-dry	1	9/9/2011 10:26:52 PM
MERCURY, TOTAL		SW7471				Analyst: zau
Mercury	0.0222	0.0190		mg/Kg-dry	1	9/14/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi

Client Sample ID: SS-14-2

Lab Order: 1109062

Collection Date: 9/7/2011 1:05:00 PM

Project: Port of Camas / 0229.04.03

Lab ID: 1109062-24

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST						
Hold	Hold				1	9/20/2011

PER CLIENT

Analyst: mjf

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-25

Client Sample ID: SS-14-1
Collection Date: 9/7/2011 1:00:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrj
Diesel	25.8	19.3		mg/Kg-dry	1	9/15/2011
Lube Oil	148	64.4		mg/Kg-dry	1	9/15/2011
Surr: o-Terphenyl	69.8	50-150		%REC	1	9/15/2011
5035A/NWTPH-GX		NWTPH-GX				Analyst: jrj
Gasoline	30.2	5.90		mg/Kg-dry	1	9/12/2011
Surr: 4-Bromofluorobenzene	115	50-150		%REC	1	9/12/2011
TOTAL METALS BY ICP		E6010				Analyst: zau
Arsenic	7.15	1.65		mg/Kg-dry	1	9/9/2011 10:31:50 PM
Barium	208	0.826	B	mg/Kg-dry	1	9/9/2011 10:31:50 PM
Cadmium	ND	0.0826		mg/Kg-dry	1	9/9/2011 10:31:50 PM
Chromium	15.6	0.413		mg/Kg-dry	1	9/9/2011 10:31:50 PM
Lead	7.96	1.65		mg/Kg-dry	1	9/9/2011 10:31:50 PM
Selenium	ND	1.65		mg/Kg-dry	1	9/9/2011 10:31:50 PM
Silver	1.76	1.65		mg/Kg-dry	1	9/9/2011 10:31:50 PM
MERCURY, TOTAL		SW7471				Analyst: zau
Mercury	0.0487	0.0215		mg/Kg-dry	1	9/14/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-26

Client Sample ID: SS-15-1
Collection Date: 9/7/2011 10:15:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrp
Diesel	ND	18.0		mg/Kg-dry	1	9/15/2011
Lube Oil	ND	60.0		mg/Kg-dry	1	9/15/2011
Surr: o-Terphenyl	77.3	50-150		%REC	1	9/15/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-27

Client Sample ID: SS-16-1
Collection Date: 9/7/2011 10:40:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrp
Diesel	ND	17.8		mg/Kg-dry	1	9/15/2011
Lube Oil	ND	59.2		mg/Kg-dry	1	9/15/2011
Surr: o-Terphenyl	89.5	50-150		%REC	1	9/15/2011
TOTAL METALS BY ICP		E6010				Analyst: zau
Arsenic	6.07	1.65		mg/Kg-dry	1	9/9/2011 10:36:49 PM
Barium	234	0.823	B	mg/Kg-dry	1	9/9/2011 10:36:49 PM
Cadmium	ND	0.0823		mg/Kg-dry	1	9/9/2011 10:36:49 PM
Chromium	16.2	0.411		mg/Kg-dry	1	9/9/2011 10:36:49 PM
Lead	20.5	1.65		mg/Kg-dry	1	9/9/2011 10:36:49 PM
Selenium	ND	1.65		mg/Kg-dry	1	9/9/2011 10:36:49 PM
Silver	2.02	1.65		mg/Kg-dry	1	9/9/2011 10:36:49 PM
MERCURY, TOTAL		SW7471				Analyst: zau
Mercury	0.0625	0.0186		mg/Kg-dry	1	9/14/2011
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: das
1-Methylnaphthalene	ND	39.5	Q	µg/Kg-dry	5	9/17/2011 5:46:00 PM
2-Methylnaphthalene	ND	39.5	Q	µg/Kg-dry	5	9/17/2011 5:46:00 PM
Acenaphthene	ND	39.5	Q	µg/Kg-dry	5	9/17/2011 5:46:00 PM
Acenaphthylene	ND	39.5	Q	µg/Kg-dry	5	9/17/2011 5:46:00 PM
Anthracene	ND	39.5	Q	µg/Kg-dry	5	9/17/2011 5:46:00 PM
Benz(a)anthracene	ND	39.5	Q	µg/Kg-dry	5	9/17/2011 5:46:00 PM
Benzo(a)pyrene	ND	39.5	Q	µg/Kg-dry	5	9/17/2011 5:46:00 PM
Benzo(b)fluoranthene	ND	39.5	Q	µg/Kg-dry	5	9/17/2011 5:46:00 PM
Benzo(g,h,i)perylene	ND	39.5	Q	µg/Kg-dry	5	9/17/2011 5:46:00 PM
Benzo(k)fluoranthene	ND	39.5	Q	µg/Kg-dry	5	9/17/2011 5:46:00 PM
Chrysene	ND	39.5	Q	µg/Kg-dry	5	9/17/2011 5:46:00 PM
Dibenz(a,h)anthracene	ND	39.5	Q	µg/Kg-dry	5	9/17/2011 5:46:00 PM
Fluoranthene	ND	39.5	Q	µg/Kg-dry	5	9/17/2011 5:46:00 PM
Fluorene	ND	39.5	Q	µg/Kg-dry	5	9/17/2011 5:46:00 PM
Indeno(1,2,3-cd)pyrene	ND	39.5	Q	µg/Kg-dry	5	9/17/2011 5:46:00 PM
Naphthalene	ND	39.5	Q	µg/Kg-dry	5	9/17/2011 5:46:00 PM
Phenanthrene	ND	39.5	Q	µg/Kg-dry	5	9/17/2011 5:46:00 PM
Pyrene	ND	39.5	Q	µg/Kg-dry	5	9/17/2011 5:46:00 PM
Surr: 2-Fluorobiphenyl	48.4	42.6-128		%REC	5	9/17/2011 5:46:00 PM
Surr: Nitrobenzene-d5	39.3	21.7-155		%REC	5	9/17/2011 5:46:00 PM
Surr: p-Terphenyl-d14	95.6	44.9-155		%REC	5	9/17/2011 5:46:00 PM

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-28

Client Sample ID: SS-17-1
Collection Date: 9/7/2011 10:45:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrp
Diesel	ND	17.1		mg/Kg-dry	1	9/15/2011
Lube Oil	ND	57.1		mg/Kg-dry	1	9/15/2011
Surr: o-Terphenyl	86.1	50-150		%REC	1	9/15/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi

Client Sample ID: SS-17-2

Lab Order: 1109062

Collection Date: 9/7/2011 10:55:00 AM

Project: Port of Camas / 0229.04.03

Lab ID: 1109062-29

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST						
Hold	Hold				1	9/20/2011

PER CLIENT

Analyst: mjf

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-30

Client Sample ID: SS-18-1
Collection Date: 9/7/2011 11:05:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX						Analyst: jrp
Diesel	146	20.2	A1	mg/Kg-dry	1	9/15/2011
Lube Oil	382	67.3	A2	mg/Kg-dry	1	9/15/2011
Surr: o-Terphenyl	86.7	50-150		%REC	1	9/15/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi

Client Sample ID: SS-18-2

Lab Order: 1109062

Collection Date: 9/7/2011 11:10:00 AM

Project: Port of Camas / 0229.04.03

Lab ID: 1109062-31

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST						
Hold	Hold				1	9/20/2011

PER CLIENT

Analyst: mjf

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-32

Client Sample ID: SS-19-1
Collection Date: 9/7/2011 11:25:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrp
Diesel	886	21.7	A1	mg/Kg-dry	1	9/15/2011
Lube Oil	1630	72.3	A2	mg/Kg-dry	1	9/15/2011
Surr: o-Terphenyl	61.6	50-150		%REC	1	9/15/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi

Client Sample ID: SS-19-2

Lab Order: 1109062

Collection Date: 9/7/2011 11:20:00 AM

Project: Port of Camas / 0229.04.03

Lab ID: 1109062-33

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: mjf
Hold	Hold				1	9/20/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-34

Client Sample ID: SS-20-1
Collection Date: 9/7/2011 12:40:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrj
Diesel	ND	19.9		mg/Kg-dry	1	9/15/2011
Lube Oil	76.7	66.2	A2	mg/Kg-dry	1	9/15/2011
Surr: o-Terphenyl	78.3	50-150		%REC	1	9/15/2011
TOTAL METALS BY ICP		E6010				Analyst: zau
Arsenic	10.7	2.45		mg/Kg-dry	1	9/9/2011 10:41:48 PM
Barium	132	1.23	B	mg/Kg-dry	1	9/9/2011 10:41:48 PM
Cadmium	ND	0.123		mg/Kg-dry	1	9/9/2011 10:41:48 PM
Chromium	18.3	0.613		mg/Kg-dry	1	9/9/2011 10:41:48 PM
Lead	6.36	2.45		mg/Kg-dry	1	9/9/2011 10:41:48 PM
Selenium	ND	2.45		mg/Kg-dry	1	9/9/2011 10:41:48 PM
Silver	ND	2.45		mg/Kg-dry	1	9/9/2011 10:41:48 PM
MERCURY, TOTAL		SW7471				Analyst: zau
Mercury	0.0226	0.0166		mg/Kg-dry	1	9/14/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi

Client Sample ID: SS-20-2

Lab Order: 1109062

Collection Date: 9/7/2011 12:45:00 PM

Project: Port of Camas / 0229.04.03

Lab ID: 1109062-35

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST						
Hold	Hold				1	9/20/2011

PER CLIENT

Analyst: mjf

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109062
Project: Port of Camas / 0229.04.03
Lab ID: 1109062-36

Client Sample ID: SS-9-1
Collection Date: 9/7/2011 9:05:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrj
Diesel	ND	18.1		mg/Kg-dry	1	9/15/2011
Lube Oil	82.6	60.2	A2	mg/Kg-dry	1	9/15/2011
Surr: o-Terphenyl	85.3	50-150		%REC	1	9/15/2011
TOTAL METALS BY ICP		E6010				Analyst: zau
Arsenic	7.36	1.94		mg/Kg-dry	1	9/9/2011 8:26:19 PM
Barium	242	0.972	B	mg/Kg-dry	1	9/9/2011 8:26:19 PM
Cadmium	ND	0.0972		mg/Kg-dry	1	9/9/2011 8:26:19 PM
Chromium	19.9	0.486		mg/Kg-dry	1	9/9/2011 8:26:19 PM
Lead	6.23	1.94		mg/Kg-dry	1	9/9/2011 8:26:19 PM
Selenium	ND	1.94		mg/Kg-dry	1	9/9/2011 8:26:19 PM
Silver	2.07	1.94		mg/Kg-dry	1	9/9/2011 8:26:19 PM
MERCURY, TOTAL		SW7471				Analyst: zau
Mercury	0.0574	0.0201		mg/Kg-dry	1	9/14/2011

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT**TestCode: 6010_S**

Sample ID: MBLK-29376		SampType: MBLK		TestCode: 6010_S		Units: mg/Kg		Prep Date: 9/8/2011		Run ID: TJA IRIS_110909C			
Client ID: ZZZZZ		Batch ID: 29376		TestNo: E6010				Analysis Date: 9/9/2011		SeqNo: 775708			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	2.00									
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Sample ID: MBLK-29376	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/9/2011	Run ID: TJA IRIS_110909D						
Client ID: ZZZZZ	Batch ID: 29376	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775821						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	2.00									
Barium	ND	1.00									
Cadmium	ND	0.100									
Chromium	ND	0.500									
Lead	ND	2.00									
Selenium	ND	2.00									
Silver	0.66	2.00									

J

Sample ID: MBLK-29380	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/9/2011	Run ID: TJA IRIS_110909E						
Client ID: ZZZZZ	Batch ID: 29380	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775850						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Barium	2.21	1.00									
Cadmium	ND	0.100									
Lead	1.03	2.00									
Selenium	ND	2.00									
Silver	0.66	2.00									

J

J

Sample ID: MBLK-29380	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/9/2011	Run ID: TJA IRIS_110909E						
Client ID: ZZZZZ	Batch ID: 29380	TestNo: E6010		Analysis Date: 9/13/2011	SeqNo: 776365						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	2.00									
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: MBLK-29380	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/9/2011	Run ID: TJA IRIS_110909E						
Client ID: ZZZZZ	Batch ID: 29380	TestNo: E6010		Analysis Date: 9/13/2011	SeqNo: 776365						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	0.500									
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Sample ID: LCS-29376	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/8/2011	Run ID: TJA IRIS_110909C						
Client ID: ZZZZZ	Batch ID: 29376	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775709						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	87.87	2.00	100	0	87.9	84.9	109	0	0		
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Sample ID: LCS-29376	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/8/2011	Run ID: TJA IRIS_110909D						
Client ID: ZZZZZ	Batch ID: 29376	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775822						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	95.48	2.00	100	0	95.5	85.1	107	0	0		
Barium	48.88	1.00	50	0	97.8	85.7	110	0	0		
Cadmium	4.77	0.100	5	0	95.4	87.2	109	0	0		
Chromium	24.88	0.500	25	0	99.5	84	113	0	0		
Lead	95.32	2.00	100	0	95.3	84.9	109	0	0		
Selenium	92.94	2.00	100	0	92.9	88.7	111	0	0		
Silver	45.3	2.00	50	0	90.6	79.3	109	0	0		

Sample ID: LCS-29380	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/9/2011	Run ID: TJA IRIS_110909E						
Client ID: ZZZZZ	Batch ID: 29380	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775851						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	95.14	2.00	100	0	95.1	85.1	107	0	0		
Barium	48.48	1.00	50	0	97	85.7	110	0	0		B
Cadmium	4.56	0.100	5	0	91.2	87.2	109	0	0		
Chromium	24.53	0.500	25	0	98.1	84	113	0	0		
Lead	94.55	2.00	100	0	94.6	84.9	109	0	0		
Selenium	91.58	2.00	100	0	91.6	88.7	111	0	0		
Silver	44.16	2.00	50	0	88.3	79.3	109	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 1109055-03AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/8/2011	Run ID: TJA IRIS_110909C						
Client ID: ZZZZZ	Batch ID: 29376	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775712						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	365.8	1.85	92.59	292.2	79.5	84.9	109	0	0		S
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Sample ID: A1109055-03AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/8/2011	Run ID: TJA IRIS_110909D						
Client ID: ZZZZZ	Batch ID: 29376	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775825						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	91.24	1.85	92.59	4.426	93.8	86.1	109	0	0		
Barium	623.8	0.926	46.3	462	349	75	125	0	0		S,MC
Cadmium	4.454	0.0926	4.63	0.08333	94.4	86.4	113	0	0		
Chromium	45.54	0.463	23.15	22.92	97.7	75	121	0	0		
Lead	395.2	1.85	92.59	306.3	96	84.9	109	0	0		
Selenium	80.53	1.85	92.59	0	87	77.7	116	0	0		
Silver	46.83	1.85	46.3	3.491	93.6	75	123	0	0		

Sample ID: 1109062-36AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 9/9/2011	Run ID: TJA IRIS_110909E						
Client ID: SS-9-1	Batch ID: 29380	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775854						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	98.68	2.08	103.9	7.365	87.9	86.1	109	0	0		
Barium	229.2	1.04	51.93	241.6	-23.9	75	125	0	0		BS,MC
Cadmium	4.456	0.104	5.193	0	85.8	86.4	113	0	0		S,RP
Chromium	42.8	0.519	25.97	19.87	88.3	75	121	0	0		
Lead	97.39	2.08	103.9	6.228	87.8	84.9	109	0	0		
Selenium	86.59	2.08	103.9	0	83.4	77.7	116	0	0		
Silver	48.05	2.08	51.93	2.07	88.5	75	123	0	0		

Sample ID: 1109055-03AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/8/2011	Run ID: TJA IRIS_110909C						
Client ID: ZZZZZ	Batch ID: 29376	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775713						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	335.3	1.92	96.15	292.2	44.8	84.9	109	365.8	8.71	20	S
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Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: A1109055-03AMSD		SampType: MSD		TestCode: 6010_S		Units: mg/Kg		Prep Date: 9/8/2011			Run ID: TJA IRIS_110909D		
Client ID: ZZZZZ		Batch ID: 29376		TestNo: E6010		Analysis Date: 9/9/2011			SeqNo: 775826				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	90.94	1.92	96.15	4.426	90	86.1	109	91.24	0.328	20	
Barium	595.4	0.962	48.08	462	277	75	125	623.8	4.66	20	S,MC
Cadmium	4.404	0.0962	4.808	0.08333	89.9	86.4	113	4.454	1.13	20	
Chromium	42.85	0.481	24.04	22.92	82.9	75	121	45.54	6.09	20	
Lead	372.8	1.92	96.15	306.3	69.2	84.9	109	395.2	5.83	20	S
Selenium	81.91	1.92	96.15	0	85.2	77.7	116	80.53	1.71	20	
Silver	46.31	1.92	48.08	3.491	89.1	75	123	46.83	1.13	20	

Sample ID: 1109062-36AMSD		SampType: MSD		TestCode: 6010_S		Units: mg/Kg-dry		Prep Date: 9/9/2011		Run ID: TJA IRIS_110909E			
Client ID: SS-9-1		Batch ID: 29380		TestNo: E6010				Analysis Date: 9/9/2011		SeqNo: 775855			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	91.9	2.01	100.4	7.365	84.2	86.1	109	98.68	7.12	20	S,RP
Barium	225.6	1.00	50.2	241.6	-32	75	125	229.2	1.59	20	BS,MC
Cadmium	4.197	0.100	5.02	0	83.6	86.4	113	4.456	5.99	20	S,RP
Chromium	41.06	0.502	25.1	19.87	84.4	75	121	42.8	4.14	20	
Lead	90.66	2.01	100.4	6.228	84.1	84.9	109	97.39	7.16	20	S,RP
Selenium	80.39	2.01	100.4	0	80.1	77.7	116	86.59	7.43	20	
Silver	45.42	2.01	50.2	2.07	86.4	75	123	48.05	5.62	20	

Sample ID: 1109055-03ADUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/8/2011	Run ID: TJA IRIS_110909C						
Client ID: ZZZZZ	Batch ID: 29376	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775711						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	357.9	1.85	0	0	0	0	0	292.2	20.2	20	R
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Sample ID: A1109055-03ADUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/8/2011	Run ID: TJA IRIS_110909D						
Client ID: ZZZZZ	Batch ID: 29376	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775824						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	3.435	1.85	0	0	0	0	0	4.426	25.2	20	RF
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: A1109055-03ADUP		SampType: DUP		TestCode: 6010_S		Units: mg/Kg		Prep Date: 9/8/2011		Run ID: TJA IRIS_110909D			
Client ID: ZZZZZ		Batch ID: 29376		TestNo: E6010				Analysis Date: 9/9/2011		SeqNo: 775824			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Barium	592.5	0.926	0	0	0	0	0	462	24.7	20	R
Cadmium	ND	0.0926	0	0	0	0	0	0.08333	0	20	
Chromium	20.94	0.463	0	0	0	0	0	22.92	8.99	20	
Lead	380.6	1.85	0	0	0	0	0	306.3	21.6	20	R
Selenium	ND	1.85	0	0	0	0	0	0	0	20	
Silver	3.306	1.85	0	0	0	0	0	3.491	5.45	20	

Sample ID: 1109062-36ADUP		SampType: DUP		TestCode: 6010_S		Units: mg/Kg-dry		Prep Date: 9/9/2011		Run ID: TJA IRIS_110909E	
Client ID: SS-9-1		Batch ID: 29380		TestNo: E6010				Analysis Date: 9/9/2011		SeqNo: 775853	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	6.18	2.08	0	0	0	0	0	7.365	17.5	20	
Barium	186	1.04	0	0	0	0	0	241.6	26.0	20	BR
Cadmium	ND	0.104	0	0	0	0	0	0	0	20	
Chromium	19.16	0.519	0	0	0	0	0	19.87	3.62	20	
Lead	6.242	2.08	0	0	0	0	0	6.228	0.226	20	
Selenium	ND	2.08	0	0	0	0	0	0	0	20	
Silver	2.254	2.08	0	0	0	0	0	2.07	8.52	20	

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_110909C	
Client ID: ZZZZZ		Batch ID: 29376		TestNo: E6010				Analysis Date: 9/9/2011		SeqNo: 775707	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	95.51	2.00	100	0	95.5	90	110	0	0		
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Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_110909C	
Client ID: ZZZZZ		Batch ID: 29376		TestNo: E6010				Analysis Date: 9/9/2011		SeqNo: 775718	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	94.42	2.00	100	0	94.4	90	110	0	0		
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CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_110909D			
Client ID: ZZZZZ		Batch ID: 29376		TestNo: E6010				Analysis Date: 9/9/2011		SeqNo: 775830			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	100.8	2.00	100	0	101	90	110	0	0		
Barium	50.33	1.00	50	0	101	90	110	0	0		
Cadmium	4.99	0.100	5	0	99.8	90	110	0	0		
Chromium	25.11	0.500	25	0	100	90	110	0	0		
Lead	100.5	2.00	100	0	101	90	110	0	0		
Selenium	98.29	2.00	100	0	98.3	90	110	0	0		
Silver	47.52	2.00	50	0	95	90	110	0	0		

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_110909D			
Client ID: ZZZZZ		Batch ID: 29376		TestNo: E6010				Analysis Date: 9/9/2011		SeqNo: 775840			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	99.48	2.00	100	0	99.5	90	110	0	0		
Barium	49.48	1.00	50	0	99	90	110	0	0		
Cadmium	4.86	0.100	5	0	97.2	90	110	0	0		
Chromium	25.3	0.500	25	0	101	90	110	0	0		
Lead	97.98	2.00	100	0	98	90	110	0	0		
Selenium	95.19	2.00	100	0	95.2	90	110	0	0		
Silver	46.5	2.00	50	0	93	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:				Run ID: TJA IRIS_110909D			
Client ID: ZZZZZ	Batch ID: 29376	TestNo: E6010	Analysis Date: 9/9/2011				SeqNo: 775845				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	103.1	2.00	100	0	103	90	110	0	0		
Cadmium	4.95	0.100	5	0	99	90	110	0	0		
Chromium	25.95	0.500	25	0	104	90	110	0	0		
Lead	101.5	2.00	100	0	102	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_110909E			
Client ID: ZZZZZ		Batch ID: 29380		TestNo: E6010				Analysis Date: 9/9/2011		SeqNo: 775849			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	103.1	2.00	100	0	103	90	110	0	0		
Barium	50.17	1.00	50	0	100	90	110	0	0		B
Cadmium	4.95	0.100	5	0	99	90	110	0	0		
Chromium	25.95	0.500	25	0	104	90	110	0	0		
Lead	101.5	2.00	100	0	102	90	110	0	0		
Selenium	97.52	2.00	100	0	97.5	90	110	0	0		
Silver	47.98	2.00	50	0	96	90	110	0	0		

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:			Run ID: TJA IRIS_110909E	
Client ID: ZZZZZ		Batch ID: 29380		TestNo: E6010		Analysis Date: 9/9/2011			SeqNo: 775859			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	103.8	2.00	100	0	104	90	110	0	0		
Barium	49.95	1.00	50	0	99.9	90	110	0	0		B
Cadmium	4.88	0.100	5	0	97.6	90	110	0	0		
Chromium	25.32	0.500	25	0	101	90	110	0	0		
Lead	102.8	2.00	100	0	103	90	110	0	0		
Selenium	97.33	2.00	100	0	97.3	90	110	0	0		
Silver	47.93	2.00	50	0	95.9	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_110909E						
Client ID: ZZZZZ	Batch ID: 29380	TestNo: E6010		Analysis Date: 9/9/2011	SeqNo: 775869						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	102.7	2.00	100	0	103	90	110	0	0		
Barium	50.38	1.00	50	0	101	90	110	0	0		B
Cadmium	4.89	0.100	5	0	97.8	90	110	0	0		
Chromium	25.24	0.500	25	0	101	90	110	0	0		
Lead	101.6	2.00	100	0	102	90	110	0	0		
Selenium	96.08	2.00	100	0	96.1	90	110	0	0		
Silver	47.54	2.00	50	0	95.1	90	110	0	0		

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CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_110909E			
Client ID: ZZZZZ		Batch ID: 29380		TestNo: E6010				Analysis Date: 9/9/2011		SeqNo: 775874			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	103.6	2.00	100	0	104	90	110	0	0		
Barium	49.98	1.00	50	0	100	90	110	0	0		B
Cadmium	4.86	0.100	5	0	97.2	90	110	0	0		
Chromium	25.81	0.500	25	0	103	90	110	0	0		
Lead	101.7	2.00	100	0	102	90	110	0	0		
Selenium	96.76	2.00	100	0	96.8	90	110	0	0		
Silver	47.8	2.00	50	0	95.6	90	110	0	0		

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:			Run ID: TJA IRIS_110909E	
Client ID: ZZZZZ		Batch ID: 29380		TestNo: E6010		Analysis Date: 9/13/2011			SeqNo: 776364			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	99.9	2.00	100	0	99.9	90	110	0	0		
Chromium	23.96	0.500	25	0	95.8	90	110	0	0		

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_110909E	
Client ID: ZZZZZ		Batch ID: 29380		TestNo: E6010				Analysis Date: 9/13/2011		SeqNo: 776366	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	99.01	2.00	100	0	99	90	110	0	0		
Barium	51.18	1.00	50	0	102	90	110	0	0		B
Chromium	24.78	0.500	25	0	99.1	90	110	0	0		

Sample ID: ICV		SampType: ICV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_110909C	
Client ID: ZZZZZ		Batch ID: 29376		TestNo: E6010				Analysis Date: 9/9/2011		SeqNo: 775706	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	98.21	2.00	100	0	98.2	90	110	0	0		
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CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: ICV		SampType: ICV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_110909D			
Client ID: ZZZZZ		Batch ID: 29376		TestNo: E6010				Analysis Date: 9/9/2011		SeqNo: 775820			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	100.3	2.00	100	0	100	90	110	0	0		
Barium	50.39	1.00	50	0	101	90	110	0	0		
Cadmium	4.98	0.100	5	0	99.6	90	110	0	0		
Chromium	25.1	0.500	25	0	100	90	110	0	0		
Lead	100.9	2.00	100	0	101	90	110	0	0		
Selenium	98.49	2.00	100	0	98.5	90	110	0	0		
Silver	48.01	2.00	50	0	96	90	110	0	0		

Sample ID: ICV		SampType: ICV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_110909E			
Client ID: ZZZZZ		Batch ID: 29380		TestNo: E6010				Analysis Date: 9/9/2011		SeqNo: 775848			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	100.3	2.00	100	0	100	90	110	0	0		
Barium	50.39	1.00	50	0	101	90	110	0	0		B
Cadmium	4.98	0.100	5	0	99.6	90	110	0	0		
Chromium	25.1	0.500	25	0	100	90	110	0	0		
Lead	100.9	2.00	100	0	101	90	110	0	0		
Selenium	98.49	2.00	100	0	98.5	90	110	0	0		
Silver	48.01	2.00	50	0	96	90	110	0	0		

Sample ID: ICV		SampType: ICV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_110909E	
Client ID: ZZZZZ		Batch ID: 29380		TestNo: E6010				Analysis Date: 9/13/2011		SeqNo: 776363	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	97.48	2.00	100	0	97.5	90	110	0	0		
Chromium	24.78	0.500	25	0	99.1	90	110	0	0		

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CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: MB-29381	SampType: MBLK	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 9/8/2011	Run ID: GCK_110912C						
Client ID: ZZZZZ	Batch ID: 29381	TestNo: SW8082		Analysis Date: 9/12/2011	SeqNo: 776338						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Aroclor 1262
Aroclor 1268

ND
ND
ND
ND
ND
ND
ND
ND
ND

0.333
0.333
0.333
0.333
0.333
0.333
0.333
0.333
0.333

6667 0 127 56.5 130 0 0

Sample ID: LCS-29381	SampType: LCS	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 9/8/2011	Run ID: GCK_110912C						
Client ID: ZZZZZ	Batch ID: 29381	TestNo: SW8082		Analysis Date: 9/12/2011	SeqNo: 776339						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260

60.67

0.333

66.67

0

91

44.3

137

0

0

Sample ID: 1109045-04AMS	SampType: MS	TestCode: 8082LL_S	Units: µg/Kg-dry	Prep Date: 9/8/2011	Run ID: GCK_110912C						
Client ID: ZZZZZ	Batch ID: 29381	TestNo: SW8082		Analysis Date: 9/12/2011	SeqNo: 776340						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260

48.37

0.403

80.61

0

60

56.6

123

0

0

Sample ID: 1109045-04AMSD	SampType: MSD	TestCode: 8082LL_S	Units: µg/Kg-dry	Prep Date: 9/8/2011	Run ID: GCK_110912C						
Client ID: ZZZZZ	Batch ID: 29381	TestNo: SW8082		Analysis Date: 9/12/2011	SeqNo: 776341						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260

50.79

0.403

80.61

0

63

56.6

123

48.37

4.88

20

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_110912C						
Client ID: ZZZZZ	Batch ID: 29381	TestNo: SW8082		Analysis Date: 9/12/2011	SeqNo: 776337						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	67.33	0.333	66.67	0	101	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_110912C						
Client ID: ZZZZZ	Batch ID: 29381	TestNo: SW8082		Analysis Date: 9/12/2011	SeqNo: 776348						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	72	0.333	66.67	0	108	85	115	0	0		
Aroclor 1260	66.67	0.333	66.67	0	100	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_110912C						
Client ID: ZZZZZ	Batch ID: 29381	TestNo: SW8082		Analysis Date: 9/12/2011	SeqNo: 776528						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	64	0.333	66.67	0	96	85	115	0	0		
Aroclor 1260	58	0.333	66.67	0	87	85	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: MBLK-29393	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	Run ID: 5973J_110909A						
Client ID: ZZZZZ	Batch ID: 29393	TestNo: SW8260B		Analysis Date: 9/9/2011	SeqNo: 775810						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	10.0									
1,1,1-Trichloroethane	ND	10.0									
1,1,2,2-Tetrachloroethane	ND	10.0									
1,1,2-Trichloroethane	ND	10.0									
1,1-Dichloroethane	ND	10.0									
1,1-Dichloroethene	ND	10.0									
1,1-Dichloropropene	ND	10.0									
1,2,3-Trichlorobenzene	1.82	10.0									J
1,2,3-Trichloropropane	ND	10.0									
1,2,4-Trichlorobenzene	1.21	10.0									J
1,2,4-Trimethylbenzene	ND	10.0									
1,2-Dibromo-3-chloropropane	ND	10.0									
1,2-Dibromoethane	ND	5.00									
1,2-Dichlorobenzene	ND	10.0									
1,2-Dichloroethane	ND	5.00									
1,2-Dichloropropane	ND	10.0									
1,3,5-Trimethylbenzene	ND	10.0									
1,3-Dichlorobenzene	ND	10.0									
1,3-Dichloropropane	ND	10.0									
1,4-Dichlorobenzene	ND	10.0									
2,2-Dichloropropane	ND	10.0									
2-Butanone	ND	20.0									
2-Chlorotoluene	ND	10.0									
2-Hexanone	ND	20.0									
4-Chlorotoluene	ND	10.0									
4-Isopropyltoluene	ND	10.0									
4-Methyl-2-pentanone	ND	20.0									
Acetone	27.31	50.0									J
Benzene	ND	10.0									
Bromobenzene	ND	10.0									
Bromochloromethane	ND	10.0									

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: MBLK-29393	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	Run ID: 5973J_110909A						
Client ID: ZZZZZ	Batch ID: 29393	TestNo: SW8260B	Analysis Date: 9/9/2011	SeqNo: 775810							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	ND	10.0									
Bromoform	ND	10.0									
Bromomethane	ND	10.0									
Carbon disulfide	ND	10.0									
Carbon tetrachloride	ND	10.0									
Chlorobenzene	ND	10.0									
Chloroethane	ND	10.0									
Chloroform	ND	10.0									
Chloromethane	ND	10.0									
cis-1,2-Dichloroethene	ND	10.0									
cis-1,3-Dichloropropene	ND	10.0									
Dibromochloromethane	ND	10.0									
Dibromomethane	ND	10.0									
Dichlorodifluoromethane	ND	10.0									
Ethylbenzene	ND	10.0									
Hexachlorobutadiene	ND	10.0									
Isopropylbenzene	ND	10.0									
m,p-Xylene	ND	20.0									
Methyl tert-butyl ether	ND	10.0									
Methylene chloride	56.35	50.0									B
n-Butylbenzene	ND	10.0									
n-Propylbenzene	ND	10.0									
Naphthalene	2.85	10.0									J
o-Xylene	ND	10.0									
sec-Butylbenzene	ND	10.0									
Styrene	ND	10.0									
tert-Butylbenzene	ND	10.0									
Tetrachloroethene	ND	10.0									
Toluene	ND	10.0									
trans-1,2-Dichloroethene	ND	10.0									
trans-1,3-Dichloropropene	ND	10.0									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: MBLK-29393	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	Run ID: 5973J_110909A						
Client ID: ZZZZZ	Batch ID: 29393	TestNo: SW8260B		Analysis Date: 9/9/2011	SeqNo: 775810						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Trichloroethene	ND	10.0									
Trichlorofluoromethane	ND	10.0									
Vinyl chloride	ND	10.0									
Surr: 1,2-Dichloroethane-d4	87.98	0	100	0	88	71.5	112	0	0		
Surr: 4-Bromofluorobenzene	91.05	0	100	0	91	75.7	122	0	0		
Surr: Dibromofluoromethane	109.5	0	100	0	109	64.3	124	0	0		
Surr: Toluene-d8	125.5	0	100	0	126	74.9	120	0	0		S

Sample ID: LCS-29393		SampType: LCS		TestCode: 8260_S		Units: µg/Kg		Prep Date:			Run ID: 5973J_110909A	
Client ID: ZZZZZ		Batch ID: 29393		TestNo: SW8260B		Analysis Date: 9/9/2011			SeqNo: 775808			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

1,1-Dichloroethene	82.31	10.0	60	0	137	65.4	133	0	0		S,CN
Benzene	68.05	10.0	60	0	113	78	123	0	0		
Chlorobenzene	65.1	10.0	60	0	108	79.5	125	0	0		
Toluene	65.9	10.0	60	0	110	77.5	132	0	0		
Trichloroethene	67.22	10.0	60	0	112	72.4	124	0	0		

Sample ID: LCSD-29393	SampType: LCSD	TestCode: 8260_S	Units: µg/Kg	Prep Date:	Run ID: 5973J_110909A						
Client ID: ZZZZZ	Batch ID: 29393	TestNo: SW8260B		Analysis Date: 9/9/2011	SeqNo: 775809						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	79.65	10.0	80	0	99.6	65.4	133	82.31	3.28	20	
Benzene	65.99	10.0	80	0	82.5	78	123	68.05	3.07	20	
Chlorobenzene	65.19	10.0	80	0	81.5	79.5	125	65.1	0.138	20	
Toluene	65.85	10.0	80	0	82.3	77.5	132	65.9	0.0759	20	
Trichloroethene	65.13	10.0	80	0	81.4	72.4	124	67.22	3.16	20	

Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: 1109062-19BMS	SampType: MS	TestCode: 8260_S	Units: µg/Kg-dry	Prep Date: 9/9/2011	Run ID: 5973J_110909A						
Client ID: SS-24-1	Batch ID: 29393	TestNo: SW8260B		Analysis Date: 9/12/2011	SeqNo: 775817						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	65.73	11.0	65.79	0	99.9	69.2	158	0	0		
Benzene	53.04	11.0	65.79	0	80.6	71.7	147	0	0		
Chlorobenzene	42.41	11.0	65.79	0	64.5	75	148	0	0		S,MI
Toluene	50.48	11.0	65.79	0	76.7	75.8	153	0	0		
Trichloroethene	49.24	11.0	65.79	0	74.8	77.1	138	0	0		S,MI

Sample ID: 1109062-19BMSD	SampType: MSD	TestCode: 8260_S	Units: µg/Kg-dry	Prep Date: 9/9/2011	Run ID: 5973J_110909A						
Client ID: SS-24-1	Batch ID: 29393	TestNo: SW8260B		Analysis Date: 9/12/2011	SeqNo: 775818						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	60.42	11.0	65.79	0	91.8	69.2	158	65.73	8.43	20	
Benzene	47.77	11.0	65.79	0	72.6	71.7	147	53.04	10.4	20	
Chlorobenzene	31.73	11.0	65.79	0	48.2	75	148	42.41	28.8	20	S,R,MI
Toluene	41.61	11.0	65.79	0	63.3	75.8	153	50.48	19.3	20	S,MI
Trichloroethene	40.94	11.0	65.79	0	62.2	77.1	138	49.24	18.4	20	S,MI

Sample ID: CCB-29393	SampType: CCB	TestCode: 8260_S	Units: µg/Kg	Prep Date:	Run ID: 5973J_110909A						
Client ID: ZZZZZ	Batch ID: R68889	TestNo: SW8260B		Analysis Date: 9/12/2011	SeqNo: 776226						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,1-Trichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,2,2-Tetrachloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,2-Trichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
1,2,3-Trichlorobenzene	2.04	10.0	0	0	0	0	0	0	0		
1,2,3-Trichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,2,4-Trichlorobenzene	1.39	10.0	0	0	0	0	0	0	0		
1,2,4-Trimethylbenzene	0.11	10.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: CCB-29393	SampType: CCB	TestCode: 8260_S	Units: µg/Kg	Prep Date:	Run ID: 5973J_110909A						
Client ID: ZZZZZ	Batch ID: R68889	TestNo: SW8260B		Analysis Date: 9/12/2011	SeqNo: 776226						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dibromoethane	ND	5.00	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	0.44	10.0	0	0	0	0	0	0	0		
1,2-Dichloroethane	ND	5.00	0	0	0	0	0	0	0		
1,2-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,3,5-Trimethylbenzene	ND	10.0	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	0.35	10.0	0	0	0	0	0	0	0		
1,3-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,4-Dichlorobenzene	0.78	10.0	0	0	0	0	0	0	0		
2,2-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
2-Butanone	ND	20.0	0	0	0	0	0	0	0		
2-Chlorotoluene	0.14	10.0	0	0	0	0	0	0	0		
2-Hexanone	ND	20.0	0	0	0	0	0	0	0		
4-Chlorotoluene	0.23	10.0	0	0	0	0	0	0	0		
4-Isopropyltoluene	0.12	10.0	0	0	0	0	0	0	0		
4-Methyl-2-pentanone	ND	20.0	0	0	0	0	0	0	0		
Acetone	ND	50.0	0	0	0	0	0	0	0		
Benzene	ND	10.0	0	0	0	0	0	0	0		
Bromobenzene	ND	10.0	0	0	0	0	0	0	0		
Bromochloromethane	ND	10.0	0	0	0	0	0	0	0		
Bromodichloromethane	ND	10.0	0	0	0	0	0	0	0		
Bromoform	ND	10.0	0	0	0	0	0	0	0		
Bromomethane	ND	10.0	0	0	0	0	0	0	0		
Carbon disulfide	ND	10.0	0	0	0	0	0	0	0		
Carbon tetrachloride	ND	10.0	0	0	0	0	0	0	0		
Chlorobenzene	0.19	10.0	0	0	0	0	0	0	0		
Chloroethane	ND	10.0	0	0	0	0	0	0	0		
Chloroform	0.17	10.0	0	0	0	0	0	0	0		
Chloromethane	0.26	10.0	0	0	0	0	0	0	0		
cis-1,2-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
cis-1,3-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: CCB-29393	SampType: CCB	TestCode: 8260_S	Units: µg/Kg	Prep Date:	Run ID: 5973J_110909A						
Client ID: ZZZZZ	Batch ID: R68889	TestNo: SW8260B	Analysis Date: 9/12/2011	SeqNo: 776226							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	10.0	0	0	0	0	0	0	0		
Dibromomethane	ND	10.0	0	0	0	0	0	0	0		
Dichlorodifluoromethane	ND	10.0	0	0	0	0	0	0	0		
Ethylbenzene	0.18	10.0	0	0	0	0	0	0	0		
Hexachlorobutadiene	0.64	10.0	0	0	0	0	0	0	0		
Isopropylbenzene	ND	10.0	0	0	0	0	0	0	0		
m,p-Xylene	0.15	20.0	0	0	0	0	0	0	0		
Methyl tert-butyl ether	ND	10.0	0	0	0	0	0	0	0		
Methylene chloride	31.5	50.0	0	0	0	0	0	0	0		
n-Butylbenzene	0.31	10.0	0	0	0	0	0	0	0		
n-Propylbenzene	0.13	10.0	0	0	0	0	0	0	0		
Naphthalene	3.12	10.0	0	0	0	0	0	0	0		
o-Xylene	ND	10.0	0	0	0	0	0	0	0		
sec-Butylbenzene	0.11	10.0	0	0	0	0	0	0	0		
Styrene	ND	10.0	0	0	0	0	0	0	0		
tert-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
Tetrachloroethene	ND	10.0	0	0	0	0	0	0	0		
Toluene	0.11	10.0	0	0	0	0	0	0	0		
trans-1,2-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
trans-1,3-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
Trichloroethene	ND	10.0	0	0	0	0	0	0	0		
Trichlorofluoromethane	ND	10.0	0	0	0	0	0	0	0		
Vinyl chloride	ND	10.0	0	0	0	0	0	0	0		
Surr: 1,2-Dichloroethane-d4	93.45	0	100	0	93.4	71.5	112	0	0		
Surr: 4-Bromofluorobenzene	85.72	0	100	0	85.7	75.7	122	0	0		
Surr: Dibromofluoromethane	107.3	0	100	0	107	64.3	124	0	0		
Surr: Toluene-d8	120.9	0	100	0	121	74.9	120	0	0		S

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: CCV-29393	SampType: CCV	TestCode: 8260_S	Units: µg/Kg	Prep Date:	Run ID: 5973J_110909A						
Client ID: ZZZZZ	Batch ID: 29393	TestNo: SW8260B		Analysis Date: 9/9/2011	SeqNo: 775807						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	70.56	10.0	60	0	118	80	120	0	0		
1,2-Dichloropropane	60.51	10.0	60	0	101	80	120	0	0		
Chloroform	61.18	10.0	60	0	102	80	120	0	0		
Ethylbenzene	65.34	10.0	60	0	109	80	120	0	0		
Toluene	63.61	10.0	60	0	106	80	120	0	0		
Vinyl chloride	63.87	10.0	60	0	106	80	120	0	0		

Sample ID: CCV-29393	SampType: CCV	TestCode: 8260_S	Units: µg/Kg	Prep Date:	Run ID: 5973J_110909A						
Client ID: ZZZZZ	Batch ID: R68889	TestNo: SW8260B		Analysis Date: 9/12/2011	SeqNo: 776225						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	61.17	10.0	60	0	102	80	120	0	0		
1,2-Dichloropropane	63.55	10.0	60	0	106	80	120	0	0		
Chloroform	57.56	10.0	60	0	95.9	80	120	0	0		
Ethylbenzene	62.7	10.0	60	0	104	80	120	0	0		
Toluene	59.85	10.0	60	0	99.8	80	120	0	0		
Vinyl chloride	63.45	10.0	60	0	106	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: HCID_NW

Sample ID: MB-29389	SampType: MBLK	TestCode: HCID_NW	Units: mg/Kg	Prep Date:	Run ID: GC-M_110909A						
Client ID: ZZZZZ	Batch ID: 29389	TestNo: NWHCID	Analysis Date: 9/9/2011	SeqNo: 775875							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	13.15	20.0									J
Mineral Spirits	ND	20.0									
Kerosene	ND	50.0									
Diesel	20.53	50.0									J
Lube Oil	9.1	100									J
Surr: BFB	97.48	0	100	0	97.5	50	150	0	0		
Surr: o-Terphenyl	97.36	0	100	0	97.4	50	150	0	0		

Sample ID: 1109062-13ADUP		SampType: DUP	TestCode: HCID_NW		Units: mg/Kg-dry		Prep Date: 9/9/2011			Run ID: GC-M_110909A		
Client ID: SP-1		Batch ID: 29389	TestNo: NWHCID					Analysis Date: 9/9/2011			SeqNo: 775878	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	5.952	22.7	0	0	0	0	0	16.85	0	20	J
Mineral Spirits	ND	22.7	0	0	0	0	0	0	0	20	
Kerosene	ND	56.7	0	0	0	0	0	0	0	20	
Diesel	38.48	56.7	0	0	0	0	0	76.95	0	20	J
Lube Oil	334.5	113	0	0	0	0	0	910	92.5	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: MB-29399	SampType: MBLK	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: CVAA_110912B
Client ID: ZZZZZ	Batch ID: 29399	TestNo: SW7471		Analysis Date: 9/12/2011	SeqNo: 776057
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury ND 0.0167

Sample ID: MB-29400	SampType: MBLK	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: CVAA_110912C
Client ID: ZZZZZ	Batch ID: 29400	TestNo: SW7471		Analysis Date: 9/12/2011	SeqNo: 776090
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury ND 0.0167

Sample ID: MB-29423	SampType: MBLK	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 9/14/2011	Run ID: CVAA_110914A
Client ID: ZZZZZ	Batch ID: 29423	TestNo: SW7471		Analysis Date: 9/14/2011	SeqNo: 776635
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury ND 0.0167

Sample ID: LCS-29399	SampType: LCS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: CVAA_110912B
Client ID: ZZZZZ	Batch ID: 29399	TestNo: SW7471		Analysis Date: 9/12/2011	SeqNo: 776056
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.272 0.0167 0.25 0 109 88.2 113 0 0

Sample ID: LCS-29400	SampType: LCS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: CVAA_110912C
Client ID: ZZZZZ	Batch ID: 29400	TestNo: SW7471		Analysis Date: 9/12/2011	SeqNo: 776089
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.2592 0.0167 0.25 0 104 88.2 113 0 0

Sample ID: LCS-29423	SampType: LCS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 9/14/2011	Run ID: CVAA_110914A
Client ID: ZZZZZ	Batch ID: 29423	TestNo: SW7471		Analysis Date: 9/14/2011	SeqNo: 776634
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: LCS-29423		SampType: LCS	TestCode: HG_CTS		Units: mg/Kg		Prep Date: 9/14/2011			Run ID: CVAA_110914A		
Client ID: ZZZZZ		Batch ID: 29423	TestNo: SW7471					Analysis Date: 9/14/2011			SeqNo: 776634	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Mercury	0.2662	0.0167	0.25	0	106	88.2	113	0	0		
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Sample ID: 1109076-02AMS	SampType: MS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: CVAA_110912B						
Client ID: ZZZZZ	Batch ID: 29399	TestNo: SW7471		Analysis Date: 9/12/2011	SeqNo: 776053						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.1629	0.00737	0.1103	0.09887	58.1	78.1	125	0	0		S,MI
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Sample ID: 1109062-05AMS		SampType: MS		TestCode: HG_CTS		Units: mg/Kg-dry		Prep Date: 9/12/2011		Run ID: CVAA_110912C	
Client ID: SS-3-1		Batch ID: 29400		TestNo: SW7471				Analysis Date: 9/12/2011		SeqNo: 776069	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.2474	0.0145	0.2167	0.03291	99	78.1	125	0	0		
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Sample ID: 1109062-27AMS	SampType: MS	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 9/14/2011	Run ID: CVAA_110914A						
Client ID: SS-16-1	Batch ID: 29423	TestNo: SW7471		Analysis Date: 9/14/2011	SeqNo: 776709						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.3408	0.0180	0.2693	0.06249	103	78.1	125	0	0		
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Sample ID: 1109076-02AMSD	SampType: MSD	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: CVAA_110912B						
Client ID: ZZZZZ	Batch ID: 29399	TestNo: SW7471		Analysis Date: 9/12/2011	SeqNo: 776054						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.1741	0.00783	0.1172	0.09887	64.2	78.1	125	0.1629	6.62	20	S,MI
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Sample ID: 1109062-05AMSD		SampType: MSD		TestCode: HG_CTS		Units: mg/Kg-dry		Prep Date: 9/12/2011		Run ID: CVAA_110912C	
Client ID: SS-3-1		Batch ID: 29400		TestNo: SW7471				Analysis Date: 9/12/2011		SeqNo: 776070	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: 1109062-05AMSD	SampType: MSD	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 9/12/2011	Run ID: CVAA_110912C						
Client ID: SS-3-1	Batch ID: 29400	TestNo: SW7471		Analysis Date: 9/12/2011	SeqNo: 776070						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2491	0.0145	0.2167	0.03291	99.7	78.1	125	0.2474	0.669	20	

Sample ID: 1109062-27AMSD	SampType: MSD	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 9/14/2011	Run ID: CVAA_110914A						
Client ID: SS-16-1	Batch ID: 29423	TestNo: SW7471		Analysis Date: 9/14/2011	SeqNo: 776710						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.3159	0.0175	0.2614	0.06249	97	78.1	125	0.3159	0	20	

Sample ID: 1109076-02ADUP	SampType: DUP	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: CVAA_110912B						
Client ID: ZZZZZ	Batch ID: 29399	TestNo: SW7471		Analysis Date: 9/12/2011	SeqNo: 776052						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.05723	0.00783	0	0	0	0	0	0.09887	53.4	20	R,MI

Sample ID: 1109062-05ADUP	SampType: DUP	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 9/12/2011	Run ID: CVAA_110912C						
Client ID: SS-3-1	Batch ID: 29400	TestNo: SW7471		Analysis Date: 9/12/2011	SeqNo: 776068						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.03021	0.0145	0	0	0	0	0	0.03291	8.56	20	

Sample ID: 1109062-27ADUP	SampType: DUP	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 9/14/2011	Run ID: CVAA_110914A						
Client ID: SS-16-1	Batch ID: 29423	TestNo: SW7471		Analysis Date: 9/14/2011	SeqNo: 776628						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.04013	0.0191	0	0	0	0	0	0.06249	43.6	20	RF

Sample ID: CCV-29399		SampType: CCV		TestCode: HG_CTS		Units: mg/Kg		Prep Date:		Run ID: CVAA_110912B	
Client ID: ZZZZZ		Batch ID: 29399		TestNo: SW7471				Analysis Date: 9/12/2011		SeqNo: 776055	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: CCV-29399		SampType: CCV		TestCode: HG_CTS		Units: mg/Kg		Prep Date:			Run ID: CVAA_110912B	
Client ID: ZZZZZ		Batch ID: 29399		TestNo: SW7471		Analysis Date: 9/12/2011			SeqNo: 776055			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Mercury	0.2602	0.0167	0.25	0	104	90	110	0	0	
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Sample ID: CCV-29399		SampType: CCV	TestCode: HG_CTS		Units: mg/Kg		Prep Date:			Run ID: CVAA_110912B		
Client ID: ZZZZZ		Batch ID: 29399	TestNo: SW7471					Analysis Date: 9/12/2011			SeqNo: 776066	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Mercury	0.2562	0.0167	0.25	0	102	90	110	0	0	
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Sample ID: CCV-29400	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_110912C						
Client ID: ZZZZZ	Batch ID: 29400	TestNo: SW7471		Analysis Date: 9/12/2011	SeqNo: 776087						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.2552	0.0167	0.25	0	102	90	110	0	0	
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Sample ID: CCV-29400	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_110912C						
Client ID: ZZZZZ	Batch ID: 29400	TestNo: SW7471		Analysis Date: 9/12/2011	SeqNo: 776088						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.2583	0.0167	0.25	0	103	90	110	0	0	
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Sample ID: CCV		SampType: CCV		TestCode: HG_CTS		Units: mg/Kg		Prep Date:			Run ID: CVAA_110914A	
Client ID: ZZZZZ		Batch ID: 29423		TestNo: SW7471		Analysis Date: 9/14/2011			SeqNo: 776636			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Mercury	0.2665	0.0167	0.25	0	107	90	110	0	0	
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Sample ID: CCV		SampType: CCV		TestCode: HG_CTS		Units: mg/Kg		Prep Date:		Run ID: CVAA_110914A	
Client ID: ZZZZZ		Batch ID: 29423		TestNo: SW7471				Analysis Date: 9/14/2011		SeqNo: 776637	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: CCV		SampType: CCV		TestCode: HG_CTS		Units: mg/Kg		Prep Date:			Run ID: CVAA_110914A	
Client ID: ZZZZZ		Batch ID: 29423		TestNo: SW7471		Analysis Date: 9/14/2011			SeqNo: 776637			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Mercury	0.2683	0.0167	0.25	0	107	90	110	0	0	
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Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_110914A						
Client ID: ZZZZZ	Batch ID: 29423	TestNo: SW7471		Analysis Date: 9/14/2011	SeqNo: 776708						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.2622	0.0167	0.25	0	105	90	110	0	0	
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Sample ID: CCV		SampType: CCV		TestCode: HG_CTS		Units: mg/Kg		Prep Date:		Run ID: CVAA_110914A	
Client ID: ZZZZZ		Batch ID: 29423		TestNo: SW7471				Analysis Date: 9/14/2011		SeqNo: 776711	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.2592	0.0167	0.25	0	104	90	110	0	0	
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: MB-29407	SampType: MBLK	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: GC-M_110913A						
Client ID: ZZZZZ	Batch ID: 29407	TestNo: NWTPH-Dx		Analysis Date: 9/13/2011	SeqNo: 776399						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	32.22	0	33.33	0	96.7	50	150	0	0		

Sample ID: MB-29413	SampType: MBLK	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 9/13/2011	Run ID: GC-M_110914A						
Client ID: ZZZZZ	Batch ID: 29413	TestNo: NWTPH-Dx		Analysis Date: 9/14/2011	SeqNo: 776752						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0									
Hydraulic Oil	ND	50.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	32.43	0	33.33	0	97.3	50	150	0	0		

Sample ID: MB-29441	SampType: MBLK	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 9/15/2011	Run ID: GC-M_110915A						
Client ID: ZZZZZ	Batch ID: 29441	TestNo: NWTPH-Dx		Analysis Date: 9/15/2011	SeqNo: 777145						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0									
Lube Oil	17.39	50.0									J
Surr: o-Terphenyl	34.25	0	33.33	0	103	50	150	0	0		

Sample ID: MB-29447	SampType: MBLK	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 9/16/2011	Run ID: GC-M_110916B						
Client ID: ZZZZZ	Batch ID: 29447	TestNo: NWTPH-Dx		Analysis Date: 9/16/2011	SeqNo: 777529						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	30.06	0	33.33	0	90.2	50	150	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: LCS-29407	SampType: LCS	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: GC-M_110913A						
Client ID: ZZZZZ	Batch ID: 29407	TestNo: NWTPH-Dx		Analysis Date: 9/13/2011	SeqNo: 776400						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	181.6	15.0	166.6	0	109	76.3	125	0	0	
Lube Oil	188.8	50.0	166.6	0	113	69.9	127	0	0	

Sample ID: LCS-29413	SampType: LCS	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 9/13/2011	Run ID: GC-M_110914A						
Client ID: ZZZZZ	Batch ID: 29413	TestNo: NWTPH-Dx		Analysis Date: 9/14/2011	SeqNo: 776760						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	180.3	15.0	166.6	0	108	76.3	125	0	0	
Lube Oil	187	50.0	166.6	0	112	69.9	127	0	0	

Sample ID: LCS-29441	SampType: LCS	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 9/15/2011	Run ID: GC-M_110915A						
Client ID: ZZZZZ	Batch ID: 29441	TestNo: NWTPH-Dx		Analysis Date: 9/15/2011	SeqNo: 777146						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	176.8	15.0	166.6	0	106	76.3	125	0	0	
Lube Oil	175.6	50.0	166.6	0	105	69.9	127	0	0	

Sample ID: LCS-29447	SampType: LCS	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 9/16/2011	Run ID: GC-M_110916B						
Client ID: ZZZZZ	Batch ID: 29447	TestNo: NWTPH-Dx		Analysis Date: 9/16/2011	SeqNo: 777530						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lube Oil	143.8	50.0	166.6	0	86.3	69.9	127	0	0	
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Sample ID: LCS-29447	SampType: LCS	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 9/16/2011	Run ID: GC-M_110916B						
Client ID: ZZZZZ	Batch ID: 29447	TestNo: NWTPH-Dx		Analysis Date: 9/19/2011	SeqNo: 777637						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	130	15.0	166.6	0	78	76.3	125	0	0	
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: 1109056-01ADUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 9/12/2011	Run ID: GC-M_110913A						
Client ID: ZZZZZ	Batch ID: 29407	TestNo: NWTPH-Dx		Analysis Date: 9/13/2011	SeqNo: 776402						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	2022	16.4	0	0	0	0	0	1969	2.66	20	
Lube Oil	71.52	54.6	0	0	0	0	0	79.15	10.1	20	M

Sample ID: 1109045-07ADUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 9/12/2011	Run ID: GC-M_110913A						
Client ID: ZZZZZ	Batch ID: 29407	TestNo: NWTPH-Dx		Analysis Date: 9/13/2011	SeqNo: 776483						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	117.5	24.8	0	0	0	0	0	186.5	45.4	20	R,M,I,A1
Lube Oil	764.2	82.6	0	0	0	0	0	1139	39.4	20	R,M,I,A2

Sample ID: 1108147-11ADUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 9/13/2011	Run ID: GC-M_110914A						
Client ID: ZZZZZ	Batch ID: 29413	TestNo: NWTPH-Dx		Analysis Date: 9/14/2011	SeqNo: 776755						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	20.2	0	0	0	0	0	0	0	20	
Lube Oil	ND	67.5	0	0	0	0	0	0	0	20	

Sample ID: 1109070-07ADUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 9/15/2011	Run ID: GC-M_110915A						
Client ID: ZZZZZ	Batch ID: 29441	TestNo: NWTPH-Dx		Analysis Date: 9/15/2011	SeqNo: 777149						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	18.2	0	0	0	0	0	0	0	20	
Lube Oil	34.45	60.8	0	0	0	0	0	38.11	0	20	J

Sample ID: 1109062-30ADUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 9/15/2011	Run ID: GC-M_110915A						
Client ID: SS-18-1	Batch ID: 29441	TestNo: NWTPH-Dx		Analysis Date: 9/15/2011	SeqNo: 777157						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	165.5	20.2	0	0	0	0	0	145.8	12.7	20	A1
Lube Oil	444.8	67.3	0	0	0	0	0	381.7	15.3	20	A2

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: 1109062-16ADUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 9/13/2011	Run ID: GC-M_110914A						
Client ID: SS-21-0.5	Batch ID: 29413	TestNo: NWTPH-Dx		Analysis Date: 9/15/2011	SeqNo: 777168						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	18.1	0	0	0	0	0	0	0	20	
Lube Oil	34.2	60.3	0	0	0	0	0	35.91	0	20	J

Sample ID: 1109062-15ADUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 9/16/2011	Run ID: GC-M_110916B						
Client ID: SP-3	Batch ID: 29447	TestNo: NWTPH-Dx		Analysis Date: 9/16/2011	SeqNo: 777536						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.2	0	0	0	0	0	0	0	20	A3
Lube Oil	168.3	50.5	0	0	0	0	0	163.6	2.85	20	

Sample ID: 1109062-14ADUP		SampType: DUP		TestCode: NWTPHDX_S		Units: mg/Kg-dry		Prep Date: 9/19/2011		Run ID: GC-M_110921A			
Client ID: SP-2		Batch ID: 29465		TestNo: NWTPH-Dx				Analysis Date: 9/21/2011		SeqNo: 778535			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	45.71	15.6	0	0	0	0	0	0	200	20	R,MI
Lube Oil	329	52.0	0	0	0	0	0	183.1	57.0	20	R,MI

Sample ID: CCB	SampType: CCB	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: GC-M_110913A						
Client ID: ZZZZZ	Batch ID: 29407	TestNo: NWTPH-Dx		Analysis Date: 9/14/2011	SeqNo: 776705						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0	0	0	0	0	0	0	0		
Lube Oil	4.553	50.0	0	0	0	0	0	0	0		
Surr: o-Terphenyl	32.69	0	33.33	0	98.1	50	150	0	0		

Sample ID: CCB		SampType: CCB		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_110914A	
Client ID: ZZZZZ		Batch ID: 29413		TestNo: NWTPH-Dx				Analysis Date: 9/15/2011		SeqNo: 777165	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0	0	0	0	0	0	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: CCB		SampType: CCB		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_110914A	
Client ID: ZZZZZ		Batch ID: 29413		TestNo: NWTPH-Dx				Analysis Date: 9/15/2011		SeqNo: 777165	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lube Oil	22.43	50.0	0	0	0	0	0	0	0	0	
Surr: o-Terphenyl	32.76	0	33.33	0	98.3	50	150	0	0	0	

Sample ID: CCB-29447	SampType: CCB	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 9/16/2011	Run ID: GC-M_110916B						
Client ID: ZZZZZ	Batch ID: 29447	TestNo: NWTPH-Dx		Analysis Date: 9/19/2011	SeqNo: 777636						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0	0	0	0	0	0	0	0	0	
Hydraulic Oil	ND	50.0	0	0	0	0	0	0	0	0	
Lube Oil	4.727	50.0	0	0	0	0	0	0	0	0	
Surr: o-Terphenyl	29.99	0	33.33	0	90	50	150	0	0	0	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_110913A						
Client ID: ZZZZZ	Batch ID: 29407	TestNo: NWTPH-Dx	Analysis Date: 9/13/2011	SeqNo: 776398							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1052	15.0	1009	0	104	85	115	0	0	0	
Lube Oil	586.3	50.0	524.9	0	112	85	115	0	0	0	

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_110913A	
Client ID: ZZZZZ		Batch ID: 29407		TestNo: NWTPH-Dx				Analysis Date: 9/13/2011		SeqNo: 776412	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1368	15.0	1346	0	102	85	115	0	0	0	
Lube Oil	740.4	50.0	699.9	0	106	85	115	0	0	0	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:				Run ID: GC-M_110913A			
Client ID: ZZZZZ	Batch ID: 29407	TestNo: NWTPH-Dx		Analysis Date: 9/13/2011				SeqNo: 776492			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_110913A			
Client ID: ZZZZZ		Batch ID: 29407		TestNo: NWTPH-Dx				Analysis Date: 9/13/2011		SeqNo: 776492			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1005	15.0	1009	0	99.6	85	115	0	0	
Lube Oil	544.2	50.0	524.9	0	104	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_110913A						
Client ID: ZZZZZ	Batch ID: 29407	TestNo: NWTPH-Dx		Analysis Date: 9/14/2011	SeqNo: 776703						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1046	15.0	1009	0	104	85	115	0	0	
Lube Oil	548.1	50.0	524.9	0	104	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_110913A						
Client ID: ZZZZZ	Batch ID: 29407	TestNo: NWTPH-Dx		Analysis Date: 9/14/2011	SeqNo: 776707						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1054	15.0	1009	0	104	85	115	0	0	
Lube Oil	556.7	50.0	524.9	0	106	85	115	0	0	

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_110914A	
Client ID: ZZZZZ		Batch ID: 29413		TestNo: NWTPH-Dx				Analysis Date: 9/14/2011		SeqNo: 776751	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1054	15.0	1009	0	104	85	115	0	0	
Hydraulic Oil	552.1	50.0	500	0	110	85	115	0	0	
Lube Oil	556.7	50.0	524.9	0	106	85	115	0	0	

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_110914A	
Client ID: ZZZZZ		Batch ID: 29413		TestNo: NWTPH-Dx				Analysis Date: 9/14/2011		SeqNo: 776761	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1385	15.0	1346	0	103	85	115	0	0	
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_110914A			
Client ID: ZZZZZ		Batch ID: 29413		TestNo: NWTPH-Dx				Analysis Date: 9/14/2011		SeqNo: 776761			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hydraulic Oil	712.7	50.0	666.6	0	107	85	115	0	0	
Lube Oil	681.1	50.0	699.9	0	97.3	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:				Run ID: GC-M_110915A			
Client ID: ZZZZZ	Batch ID: 29441	TestNo: NWTPH-Dx		Analysis Date: 9/15/2011				SeqNo: 777144			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1067	15.0	1009	0	106	85	115	0	0	
Lube Oil	550.9	50.0	524.9	0	105	85	115	0	0	

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_110915A	
Client ID: ZZZZZ		Batch ID: 29441		TestNo: NWTPH-Dx				Analysis Date: 9/15/2011		SeqNo: 777161	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1496	15.0	1346	0	111	85	115	0	0	
Lube Oil	764.6	50.0	699.9	0	109	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_110914A						
Client ID: ZZZZZ	Batch ID: 29413	TestNo: NWTPH-Dx		Analysis Date: 9/15/2011	SeqNo: 777164						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1067	15.0	1009	0	106	85	115	0	0	
Lube Oil	550.9	50.0	524.9	0	105	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:				Run ID: GC-M_110914A			
Client ID: ZZZZZ	Batch ID: 29413	TestNo: NWTPH-Dx		Analysis Date: 9/15/2011				SeqNo: 777166			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1496	15.0	1346	0	111	85	115	0	0	
Lube Oil	764.6	50.0	699.9	0	109	85	115	0	0	

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CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_110914A	
Client ID: ZZZZZ		Batch ID: 29413		TestNo: NWTPH-Dx				Analysis Date: 9/15/2011		SeqNo: 777180	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1127	15.0	1009	0	112	85	115	0	0	
Lube Oil	516.4	50.0	524.9	0	98.4	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_110916B						
Client ID: ZZZZZ	Batch ID: 29447	TestNo: NWTPH-Dx		Analysis Date: 9/16/2011	SeqNo: 777528						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1028	15.0	1009	0	102	85	115	0	0	
Lube Oil	553.9	50.0	524.9	0	106	85	115	0	0	

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_110916B	
Client ID: ZZZZZ		Batch ID: 29447		TestNo: NWTPH-Dx				Analysis Date: 9/16/2011		SeqNo: 777539	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1383	15.0	1346	0	103	85	115	0	0	
Lube Oil	721.1	50.0	699.9	0	103	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_110916B						
Client ID: ZZZZZ	Batch ID: 29447	TestNo: NWTPH-Dx		Analysis Date: 9/19/2011	SeqNo: 777635						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1017	15.0	1009	0	101	85	115	0	0	
Lube Oil	544.4	50.0	524.9	0	104	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_110916B						
Client ID: ZZZZZ	Batch ID: 29447	TestNo: NWTPH-Dx		Analysis Date: 9/19/2011	SeqNo: 777663						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1346	15.0	1346	0	100	85	115	0	0	
Hydraulic Oil	717.5	50.0	694.8	0	103	85	115	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S Units: mg/Kg				Prep Date:			Run ID: GC-M_110916B		
Client ID: ZZZZZ	Batch ID: 29447	TestNo: NWTPH-Dx				Analysis Date: 9/19/2011			SeqNo: 777663		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lube Oil	742.6	50.0	699.9	0	106	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S Units: mg/Kg				Prep Date:			Run ID: GC-M_110921A		
Client ID: ZZZZZ	Batch ID: 29470	TestNo: NWTPH-Dx				Analysis Date: 9/21/2011			SeqNo: 778531		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1039	15.0	1009	0	103	85	115	0	0		
Lube Oil	600.9	50.0	524.9	0	114	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S Units: mg/Kg				Prep Date:			Run ID: GC-M_110921A		
Client ID: ZZZZZ	Batch ID: 29470	TestNo: NWTPH-Dx				Analysis Date: 9/21/2011			SeqNo: 778536		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1473	15.0	1346	0	109	85	115	0	0		
Lube Oil	789.8	50.0	699.9	0	113	85	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHGX_S

Sample ID: MB-29383	SampType: MBLK	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date: 9/9/2011	Run ID: GC-S_110909A						
Client ID: ZZZZZ	Batch ID: 29383	TestNo: NWTPH-Gx		Analysis Date: 9/9/2011	SeqNo: 775675						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	2.422	2.50									J
Surr: 4-Bromofluorobenzene	3.916	0	5	0	78.3	50	150	0	0		

Sample ID: MB-29383	SampType: MBLK	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date: 9/9/2011	Run ID: GC-I_110909B						
Client ID: ZZZZZ	Batch ID: 29383	TestNo: NWTPH-Gx		Analysis Date: 9/9/2011	SeqNo: 775888						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	2.188	2.50									J
Surr: 4-Bromofluorobenzene	4.735	0	5	0	94.7	50	150	0	0		

Sample ID: LCS-29383		SampType: LCS		TestCode: NWTPHGX_S		Units: mg/Kg		Prep Date: 9/9/2011		Run ID: GC-S_110909A	
Client ID: ZZZZZ		Batch ID: 29383		TestNo: NWTPH-Gx				Analysis Date: 9/9/2011		SeqNo: 775674	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	50.9	2.50	50	0	102	53.5	121	0	0		
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Sample ID: LCS-29383	SampType: LCS	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date: 9/9/2011	Run ID: GC-I_110909B						
Client ID: ZZZZZ	Batch ID: 29383	TestNo: NWTPH-Gx		Analysis Date: 9/9/2011	SeqNo: 775887						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	44.26	2.50	50	0	88.5	53.5	121	0	0		
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Sample ID: 1109062-19ADUP	SampType: DUP	TestCode: NWTPHGX_S	Units: mg/Kg-dry	Prep Date: 9/9/2011	Run ID: GC-S_110909A						
Client ID: SS-24-1	Batch ID: 29383	TestNo: NWTPH-Gx		Analysis Date: 9/9/2011	SeqNo: 775680						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	2.74	0	0	0	0	0	0	0	0	20
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Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHGX_S

Sample ID: 1109067-02ADUP	SampType: DUP	TestCode: NWTPHGX_S	Units: mg/Kg-dry	Prep Date: 9/9/2011	Run ID: GC-I_110909B						
Client ID: ZZZZZ	Batch ID: 29383	TestNo: NWTPH-Gx		Analysis Date: 9/9/2011	SeqNo: 775891						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	3.37	0	0	0	0	0	0	0	20
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Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date:	Run ID: GC-S_110909A						
Client ID: ZZZZZ	Batch ID: 29383	TestNo: NWTPH-Gx		Analysis Date: 9/9/2011	SeqNo: 775673						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	97.41	2.50	100	0	97.4	80	120	0	0
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Sample ID: CCV		SampType: CCV		TestCode: NWTPHGX_S		Units: mg/Kg		Prep Date:		Run ID: GC-S_110909A	
Client ID: ZZZZZ		Batch ID: 29383		TestNo: NWTPH-Gx				Analysis Date: 9/9/2011		SeqNo: 775683	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	122.8	2.50	125	0	98.3	80	120	0	0
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Sample ID: CCV		SampType: CCV		TestCode: NWTPHGX_S		Units: mg/Kg		Prep Date:		Run ID: GC-I_110909B	
Client ID: ZZZZZ		Batch ID: 29383		TestNo: NWTPH-Gx				Analysis Date: 9/9/2011		SeqNo: 775886	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	83.96	2.50	100	0	84	80	120	0	0
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Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date:				Run ID: GC-I_110909B			
Client ID: ZZZZZ	Batch ID: 29383	TestNo: NWTPH-Gx		Analysis Date: 9/9/2011				SeqNo: 775892			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	127.9	2.50	150	0	85.3	80	120	0	0
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Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHGX_SA

Sample ID: MB-29404	SampType: MBLK	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: GC-I_110912C						
Client ID: ZZZZZ	Batch ID: 29404	TestNo: NWTPH-Gx		Analysis Date: 9/12/2011	SeqNo: 776263						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	2.50									
Surr: 4-Bromofluorobenzene	4.675	0	5	0	93.5	50	150	0	0		

Sample ID: LCS-29404	SampType: LCS	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: GC-I_110912C						
Client ID: ZZZZZ	Batch ID: 29404	TestNo: NWTPH-Gx		Analysis Date: 9/12/2011	SeqNo: 776264						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	42.39	2.50	50	0	84.8	53.5	121	0	0		
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Sample ID: A1109070-18ADUP	SampType: DUP	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date: 9/12/2011	Run ID: GC-I_110912C						
Client ID: ZZZZZ	Batch ID: 29404	TestNo: NWTPH-Gx		Analysis Date: 9/12/2011	SeqNo: 776266						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	2.50	0	0	0	0	0	1.133	0	20	
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Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date:				Run ID: GC-I_110912C			
Client ID: ZZZZZ	Batch ID: 29404	TestNo: NWTPH-Gx		Analysis Date: 9/12/2011				SeqNo: 776262			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	119.1	2.50	125	0	95.3	80	120	0	0		
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Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date:				Run ID: GC-I_110912C			
Client ID: ZZZZZ	Batch ID: 29404	TestNo: NWTPH-Gx		Analysis Date: 9/12/2011				SeqNo: 776274			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	128	2.50	150	0	85.4	80	120	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: MB-29392	SampType: MBLK	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 9/9/2011	Run ID: 5975Q_110914B						
Client ID: ZZZZZ	Batch ID: 29392	TestNo: 8270SIM		Analysis Date: 9/14/2011	SeqNo: 776886						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Anthracene
Benz(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Chrysene
Dibenz(a,h)anthracene
Fluoranthene
Fluorene
Indeno(1,2,3-cd)pyrene
Naphthalene
Phenanthrene
Pyrene

ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
ND

6.67
6.67
6.67
6.67
6.67
6.67
6.67
6.67
6.67
6.67
6.67
6.67
6.67
6.67
6.67
6.67
6.67
6.67

Surr: 2-Fluorobiphenyl
Surr: Nitrobenzene-d5
Surr: p-Terphenyl-d14

5309
4649
6413

0
0
0

6667
6667
6667

0
0
0

79.6
69.7
96.2

42.6
21.7
44.9

128
155
155

0
0
0

0
0
0

Sample ID: LCS-29392	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 9/9/2011	Run ID: 5975Q_110914B						
Client ID: ZZZZZ	Batch ID: 29392	TestNo: 8270SIM		Analysis Date: 9/15/2011	SeqNo: 776899						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene
Benzo(g,h,i)perylene
Chrysene
Naphthalene
Phenanthrene

237.3
250
286
210.7
310

6.67
6.67
6.67
6.67
6.67

333.3
333.3
333.3
333.3
333.3

0
0
0
0
0

71.2
75
85.8
63.2
93

39.6
49.7
57.1
29.1
48.4

107
135
130
109
115

0
0
0
0
0

0
0
0
0
0

Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: LCS-29392	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 9/9/2011	Run ID: 5975Q_110914B						
Client ID: ZZZZZ	Batch ID: 29392	TestNo: 8270SIM		Analysis Date: 9/15/2011	SeqNo: 776899						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Pyrene	282.7	6.67	333.3	0	84.8	47.2	134	0	0		
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Sample ID: 1109062-07AMS	SampType: MS	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 9/9/2011	Run ID: 5975Q_110914B						
Client ID: TP-9-2	Batch ID: 29392	TestNo: 8270SIM		Analysis Date: 9/15/2011	SeqNo: 776900						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	307.8	8.82	440.9	1.764	69.4	33.7	111	0	0		
Benzo(g,h,i)perylene	301.6	8.82	440.9	15.87	64.8	15	128	0	0		
Chrysene	353.6	8.82	440.9	14.11	77	37.5	125	0	0		
Naphthalene	240.7	8.82	440.9	7.937	52.8	27.7	108	0	0		
Phenanthrene	421.5	8.82	440.9	29.98	88.8	20.2	139	0	0		
Pyrene	362.4	8.82	440.9	32.63	74.8	26.8	142	0	0		

Sample ID: 1109062-07AMSD	SampType: MSD	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 9/9/2011	Run ID: 5975Q_110914B						
Client ID: TP-9-2	Batch ID: 29392	TestNo: 8270SIM		Analysis Date: 9/15/2011	SeqNo: 776901						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	323.6	8.82	440.9	1.764	73	33.7	111	307.8	5.03	20	
Benzo(g,h,i)perylene	364.2	8.82	440.9	15.87	79	15	128	301.6	18.8	20	
Chrysene	380.1	8.82	440.9	14.11	83	37.5	125	353.6	7.21	20	
Naphthalene	252.2	8.82	440.9	7.937	55.4	27.7	108	240.7	4.65	20	
Phenanthrene	451.5	8.82	440.9	29.98	95.6	20.2	139	421.5	6.87	20	
Pyrene	395.1	8.82	440.9	32.63	82.2	26.8	142	362.4	8.61	20	

Sample ID: CCB-29392	SampType: CCB	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5975Q_110914B						
Client ID: ZZZZZ	Batch ID: 29392	TestNo: 8270SIM		Analysis Date: 9/15/2011	SeqNo: 777216						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	ND	6.67	0	0	0	0	0	0	0		
2-Methylnaphthalene	ND	6.67	0	0	0	0	0	0	0		
Acenaphthene	ND	6.67	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCB-29392		SampType: CCB	TestCode: PAHLL_S		Units: µg/Kg	Prep Date:				Run ID: 5975Q_110914B		
Client ID: ZZZZZ		Batch ID: 29392	TestNo: 8270SIM			Analysis Date: 9/15/2011				SeqNo: 777216		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Acenaphthylene	ND	6.67	0	0	0	0	0	0	0		
Anthracene	ND	6.67	0	0	0	0	0	0	0		
Benz(a)anthracene	ND	6.67	0	0	0	0	0	0	0		
Benzo(a)pyrene	ND	6.67	0	0	0	0	0	0	0		
Benzo(b)fluoranthene	ND	6.67	0	0	0	0	0	0	0		
Benzo(g,h,i)perylene	ND	6.67	0	0	0	0	0	0	0		
Benzo(k)fluoranthene	ND	6.67	0	0	0	0	0	0	0		
Chrysene	ND	6.67	0	0	0	0	0	0	0		
Dibenz(a,h)anthracene	ND	6.67	0	0	0	0	0	0	0		
Fluoranthene	ND	6.67	0	0	0	0	0	0	0		
Fluorene	ND	6.67	0	0	0	0	0	0	0		
Indeno(1,2,3-cd)pyrene	ND	6.67	0	0	0	0	0	0	0		
Naphthalene	2	6.67	0	0	0	0	0	0	0		
Phenanthrene	ND	6.67	0	0	0	0	0	0	0		
Pyrene	2	6.67	0	0	0	0	0	0	0		
Surr: 2-Fluorobiphenyl	5199	0	6667	0	78	42.6	128	0	0		
Surr: Nitrobenzene-d5	4914	0	6667	0	73.7	21.7	155	0	0		
Surr: p-Terphenyl-d14	6822	0	6667	0	102	44.9	155	0	0		

Sample ID: CCB-29392		SampType: CCB	TestCode: PAHLL_S		Units: µg/Kg		Prep Date:			Run ID: 5975Q_110914B		
Client ID: ZZZZZ		Batch ID: 29392		TestNo: 8270SIM			Analysis Date: 9/17/2011			SeqNo: 777442		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

1-Methylnaphthalene	ND	6.67	0	0	0	0	0	0	0		
2-Methylnaphthalene	ND	6.67	0	0	0	0	0	0	0		
Acenaphthene	ND	6.67	0	0	0	0	0	0	0		
Acenaphthylene	ND	6.67	0	0	0	0	0	0	0		
Anthracene	ND	6.67	0	0	0	0	0	0	0		
Benz(a)anthracene	3.333	6.67	0	0	0	0	0	0	0		
Benzo(a)pyrene	3.333	6.67	0	0	0	0	0	0	0		
Benzo(b)fluoranthene	4	6.67	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCB-29392	SampType: CCB	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5975Q_110914B						
Client ID: ZZZZZ	Batch ID: 29392	TestNo: 8270SIM		Analysis Date: 9/17/2011	SeqNo: 777442						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(g,h,i)perylene	2.667	6.67	0	0	0	0	0	0	0		
Benzo(k)fluoranthene	4	6.67	0	0	0	0	0	0	0		
Chrysene	2.667	6.67	0	0	0	0	0	0	0		
Dibenz(a,h)anthracene	2	6.67	0	0	0	0	0	0	0		
Fluoranthene	ND	6.67	0	0	0	0	0	0	0		
Fluorene	ND	6.67	0	0	0	0	0	0	0		
Indeno(1,2,3-cd)pyrene	2.667	6.67	0	0	0	0	0	0	0		
Naphthalene	0.6667	6.67	0	0	0	0	0	0	0		
Phenanthrene	0.6667	6.67	0	0	0	0	0	0	0		
Pyrene	0.6667	6.67	0	0	0	0	0	0	0		
Surr: 2-Fluorobiphenyl	3989	0	6667	0	59.8	42.6	128	0	0		
Surr: Nitrobenzene-d5	3741	0	6667	0	56.1	21.7	155	0	0		
Surr: p-Terphenyl-d14	5579	0	6667	0	83.7	44.9	155	0	0		

Sample ID: CCV-29392	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:				Run ID: 5975Q_110914B			
Client ID: ZZZZZ	Batch ID: 29392	TestNo: 8270SIM			Analysis Date: 9/14/2011				SeqNo: 776885		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	316	6.67	333.3	0	94.8	70	130	0	0		
2-Methylnaphthalene	327.3	6.67	333.3	0	98.2	70	130	0	0		
Acenaphthene	328.7	6.67	333.3	0	98.6	70	130	0	0		
Acenaphthylene	320	6.67	333.3	0	96	70	130	0	0		
Anthracene	321.3	6.67	333.3	0	96.4	70	130	0	0		
Benz(a)anthracene	298	6.67	333.3	0	89.4	70	130	0	0		
Benzo(a)pyrene	356	6.67	333.3	0	107	70	130	0	0		
Benzo(b)fluoranthene	343.3	6.67	333.3	0	103	70	130	0	0		
Benzo(g,h,i)perylene	348.7	6.67	333.3	0	105	70	130	0	0		
Benzo(k)fluoranthene	351.3	6.67	333.3	0	105	70	130	0	0		
Chrysene	322	6.67	333.3	0	96.6	70	130	0	0		
Dibenz(a,h)anthracene	339.3	6.67	333.3	0	102	70	130	0	0		
Fluoranthene	316	6.67	333.3	0	94.8	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCV-29392	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5975Q_110914B						
Client ID: ZZZZZ	Batch ID: 29392	TestNo: 8270SIM		Analysis Date: 9/14/2011	SeqNo: 776885						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluorene	318	6.67	333.3	0	95.4	70	130	0	0		
Indeno(1,2,3-cd)pyrene	362.7	6.67	333.3	0	109	70	130	0	0		
Naphthalene	310	6.67	333.3	0	93	70	130	0	0		
Phenanthrene	396	6.67	333.3	0	119	70	130	0	0		
Pyrene	323.3	6.67	333.3	0	97	70	130	0	0		

Sample ID: CCV-29392		SampType: CCV		TestCode: PAHLL_S		Units: µg/Kg		Prep Date:		Run ID: 5975Q_110914B			
Client ID: ZZZZZ		Batch ID: 29392		TestNo: 8270SIM				Analysis Date: 9/15/2011		SeqNo: 777215			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	122.7	6.67	133.3	0	92	70	130	0	0		
2-Methylnaphthalene	126	6.67	133.3	0	94.5	70	130	0	0		
Acenaphthene	130	6.67	133.3	0	97.5	70	130	0	0		
Acenaphthylene	136.7	6.67	133.3	0	102	70	130	0	0		
Anthracene	130.7	6.67	133.3	0	98	70	130	0	0		
Benz(a)anthracene	118	6.67	133.3	0	88.5	70	130	0	0		
Benzo(a)pyrene	133.3	6.67	133.3	0	100	70	130	0	0		
Benzo(b)fluoranthene	124.7	6.67	133.3	0	93.5	70	130	0	0		
Benzo(g,h,i)perylene	121.3	6.67	133.3	0	91	70	130	0	0		
Benzo(k)fluoranthene	128.7	6.67	133.3	0	96.5	70	130	0	0		
Chrysene	127.3	6.67	133.3	0	95.5	70	130	0	0		
Dibenz(a,h)anthracene	126.7	6.67	133.3	0	95	70	130	0	0		
Fluoranthene	120.7	6.67	133.3	0	90.5	70	130	0	0		
Fluorene	135.3	6.67	133.3	0	101	70	130	0	0		
Indeno(1,2,3-cd)pyrene	133.3	6.67	133.3	0	100	70	130	0	0		
Naphthalene	122	6.67	133.3	0	91.5	70	130	0	0		
Phenanthrene	146	6.67	133.3	0	109	70	130	0	0		
Pyrene	144.7	6.67	133.3	0	108	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109062
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCV-29392	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5975Q_110914B						
Client ID: ZZZZZ	Batch ID: 29392	TestNo: 8270SIM	Analysis Date: 9/17/2011	SeqNo: 777441							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	356.7	6.67	333.3	0	107	70	130	0	0		
2-Methylnaphthalene	358	6.67	333.3	0	107	70	130	0	0		
Acenaphthene	360.7	6.67	333.3	0	108	70	130	0	0		
Acenaphthylene	371.3	6.67	333.3	0	111	70	130	0	0		
Anthracene	372	6.67	333.3	0	112	70	130	0	0		
Benz(a)anthracene	334.7	6.67	333.3	0	100	70	130	0	0		
Benzo(a)pyrene	389.3	6.67	333.3	0	117	70	130	0	0		
Benzo(b)fluoranthene	386	6.67	333.3	0	116	70	130	0	0		
Benzo(g,h,i)perylene	342	6.67	333.3	0	103	70	130	0	0		
Benzo(k)fluoranthene	406	6.67	333.3	0	122	70	130	0	0		
Chrysene	358	6.67	333.3	0	107	70	130	0	0		
Dibenz(a,h)anthracene	359.3	6.67	333.3	0	108	70	130	0	0		
Fluoranthene	362.7	6.67	333.3	0	109	70	130	0	0		
Fluorene	380.7	6.67	333.3	0	114	70	130	0	0		
Indeno(1,2,3-cd)pyrene	376.7	6.67	333.3	0	113	70	130	0	0		
Naphthalene	348	6.67	333.3	0	104	70	130	0	0		
Phenanthrene	393.3	6.67	333.3	0	118	70	130	0	0		
Pyrene	377.3	6.67	333.3	0	113	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

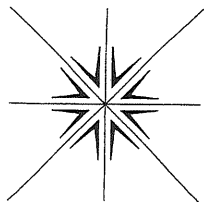
KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result great than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.

CHAIN OF CUSTODY RECORD

Page 1 of



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Contact Person/Project Manager Christina Johnson
Company MFA
Address 7223 NE Hazel Dell # Suite B

Phone 360.433.0249 Fax

Project No. 0229-04-03 Project Name Port of Camas Wharf

Project Site Location OR WA Other

Invoice To Christina Johnson P.O. No.

Collected By: [Signature]
Signature Christina Johnson
Printed Christina Johnson

Signature
Printed

Turn Around Time

☒ Normal 5-7 Business Days

☐ Rush

Specify

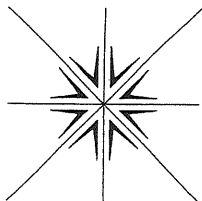
Rush Analyses Must Be Scheduled With The Lab In Advance

				No. of Containers	Analyses										For Laboratory Use						
Date	Time	Sample I.D.	Matrix		NWTPH-HCLD	12x	G-X	Mutals (PCH) (to meet)	(8200 B) VOCs	PAHs (5220 SIM)						Lab Job No.	Shipped Via	Air Bill No.	Temperature On Receipt <u> </u> °C	Specialty Analytical Containers? Y / N	Specialty Analytical Trip Blanks? Y / N
9/7/11	8:10	SS-5-1	S	1		X		X													
9/7/11	8:25	SS-6-1		1		X		X													
	8:30	SS-8-1		1		X		X	X												
	8:45	SS-7-1		1		X		X													
	9:00	SS-3-1		1		X		X	X												
	8:50	SS-4-1		1		X		X													Missing
	14:15	TP-9-2		5		X	X	X		X							5035				
	14:40	TP-9-7		1		X	X	X		X											
	13:25	TP-10-2		1		X	X	X		X											
	13:45	TP-10-7		1		X	X	X		X											
	14:50	TP-11-2		1		X	X	X		X											
	15:00	TP-11-7		1		X	X	X		X											

Relinquished By: <u>[Signature]</u>	Date <u>9/8/11</u>	Time <u>15:15</u>	Received By: <u> </u>	Company: <u> </u>	Relinquished By: <u> </u>	Date <u> </u>	Time <u> </u>
Company: <u>MFA</u>			Company: <u> </u>		Company: <u> </u>		

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt. Samples held beyond 60 days subject to storage fee(s)	Received For Lab By: <u>Nicki Bopper</u>	Date <u>9/8/11</u>	Time <u>1515</u>
---	--	--------------------	------------------

Page 2 of 2



11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Company MFA

Address 7223 NE Hazel Dell Suite R

Phone: 360.433.0249 Fax:

Project No. 0229.04.03 Project Name Port of Camas Wash

Project Site Location OR _____ WA X Other _____

Invoice To	P.O. No.
------------	----------

Collected By:

Signature.

Printed Christina Johnson

Signature_____

Printed _____

☐ Normal 5-7 Business Days☐ Rush

Specify

Rush Analyses Must Be Scheduled With The Lab In Advance

[illegible]

Relinquished By:

Company:

Date _____

Time

Received By:

Company:

Relinquished By:

Company:

Date _____

Time

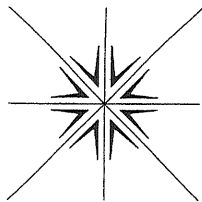
Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt.
Samples held beyond 60 days subject to storage fee(s)

Received For Lab By:

Date _____

Time

Page 3 of 3



11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Company

Address

Phone 360.433-0249

Fax

Project No. 0229.04.03

Project Name Ppt & Camera work

Project Site Location OR

WA ☒ Other

Invoice To

P.O. No.

Collected By:

Signature:

Printed.

Signature_____

Printed

Turn Around Time

☒ Normal 5-7 Business Days☐ Rush

Specify

Rush Analyses Must Be Scheduled With The Lab In Advance

[illegible]

Relinquished By:

Company:

Date _____

Time

Received By:

Company:

Relinquished By:

Company:

Date _____

Time

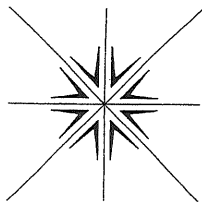
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Samples held beyond 60 days subject to storage fee(s)

Received For Lab By:

Date _____

Time

Page 4 of 4



11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Contact Person/Project Manager Christina Johnson
Company MKA
Address 7223 NHE Hazel Dell suite B
Vancouver, WA
Phone 360.433.0249 Fax -
Project No. 022904.03 Project Name Part of Camas was
Project Site Location OR WA ☒ Other
Invoice To Christina Johnson P.O. No.

Collected By:

Signature.

Printed.

Signature.

Printed

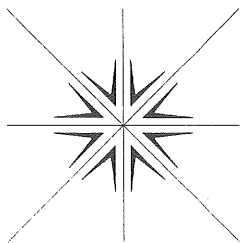
Turn Around Time

☐ Normal 5-7 Business Days☐ Rush

Specify

Rush Analyses Must Be Scheduled With The Lab In Advance

[illegible]



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
(503) 607-1331
Fax (503) 607-1336

September 22, 2011

Christina Johnson
Maul, Foster & Alongi
7223 NE Hazel Dell Avenue
Suite B
Vancouver, WA 98665
TEL: (360) 694-2691
FAX: (360) 906-1958

RE: Port of Camas, Washougal/0229.04.03

Dear Christina Johnson:

Order No.: 1109122

Specialty Analytical received 1 sample on 9/16/2011 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,


Cindy Billyard
Project Manager


Technical Review

Specialty Analytical

Date: 22-Sep-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1109122
Project: Port of Camas, Washougal/0229.04.03
Lab ID: 1109122-01

Client Sample ID: Open Pit 1-S-20.5
Collection Date: 9/15/2011 1:05:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
		E6010				Analyst: zau
Arsenic	4.31	2.36		mg/Kg-dry	1	9/21/2011 12:04:40 PM
Barium	213	1.18		mg/Kg-dry	1	9/21/2011 12:04:40 PM
Cadmium	ND	0.118		mg/Kg-dry	1	9/21/2011 12:04:40 PM
Chromium	16.1	0.590		mg/Kg-dry	1	9/21/2011 12:04:40 PM
Lead	7.86	2.36		mg/Kg-dry	1	9/21/2011 12:04:40 PM
Selenium	ND	2.36		mg/Kg-dry	1	9/21/2011 12:04:40 PM
Silver	6.18	2.36		mg/Kg-dry	1	9/21/2011 12:04:40 PM
MERCURY, TOTAL						
		SW7471				Analyst: zau
Mercury	0.0300	0.0188		mg/Kg-dry	1	9/21/2011
LOW LEVEL PAH BY GC/MS						
		8270SIM				Analyst: bda
1-Methylnaphthalene	11.0	8.50		µg/Kg-dry	1	9/19/2011 7:56:00 PM
2-Methylnaphthalene	14.4	8.50		µg/Kg-dry	1	9/19/2011 7:56:00 PM
Acenaphthene	ND	8.50		µg/Kg-dry	1	9/19/2011 7:56:00 PM
Acenaphthylene	9.34	8.50		µg/Kg-dry	1	9/19/2011 7:56:00 PM
Anthracene	9.34	8.50		µg/Kg-dry	1	9/19/2011 7:56:00 PM
Benz(a)anthracene	24.6	8.50		µg/Kg-dry	1	9/19/2011 7:56:00 PM
Benzo(a)pyrene	34.8	8.50		µg/Kg-dry	1	9/19/2011 7:56:00 PM
Benzo(b)fluoranthene	48.4	8.50		µg/Kg-dry	1	9/19/2011 7:56:00 PM
Benzo(g,h,i)perylene	59.4	8.50		µg/Kg-dry	1	9/19/2011 7:56:00 PM
Benzo(k)fluoranthene	21.2	8.50		µg/Kg-dry	1	9/19/2011 7:56:00 PM
Chrysene	26.3	8.50		µg/Kg-dry	1	9/19/2011 7:56:00 PM
Dibenz(a,h)anthracene	17.0	8.50		µg/Kg-dry	1	9/19/2011 7:56:00 PM
Fluoranthene	22.1	8.50		µg/Kg-dry	1	9/19/2011 7:56:00 PM
Fluorene	ND	8.50		µg/Kg-dry	1	9/19/2011 7:56:00 PM
Indeno(1,2,3-cd)pyrene	34.0	8.50		µg/Kg-dry	1	9/19/2011 7:56:00 PM
Naphthalene	13.6	8.50		µg/Kg-dry	1	9/19/2011 7:56:00 PM
Phenanthrene	10.2	8.50		µg/Kg-dry	1	9/19/2011 7:56:00 PM
Pyrene	22.1	8.50		µg/Kg-dry	1	9/19/2011 7:56:00 PM
Surr: 2-Fluorobiphenyl	78.8	42.6-128		%REC	1	9/19/2011 7:56:00 PM
Surr: Nitrobenzene-d5	97.8	21.7-155		%REC	1	9/19/2011 7:56:00 PM
Surr: p-Terphenyl-d14	80.6	44.9-155		%REC	1	9/19/2011 7:56:00 PM
PCB'S IN SOIL						
		SW8082				Analyst: das
Aroclor 1016	ND	0.424		µg/Kg-dry	1	9/19/2011
Aroclor 1221	ND	0.424		µg/Kg-dry	1	9/19/2011
Aroclor 1232	ND	0.424		µg/Kg-dry	1	9/19/2011
Aroclor 1242	ND	0.424		µg/Kg-dry	1	9/19/2011
Aroclor 1248	ND	0.424		µg/Kg-dry	1	9/19/2011
Aroclor 1254	ND	0.424		µg/Kg-dry	1	9/19/2011
Aroclor 1260	20.2	0.424		µg/Kg-dry	1	9/19/2011

Specialty Analytical

Date: 22-Sep-11

CLIENT:	Maul, Foster & Alongi	Client Sample ID:	Open Pit 1-S-20.5
Lab Order:	1109122	Collection Date:	9/15/2011 1:05:00 PM
Project:	Port of Camas, Washougal/0229.04.03		
Lab ID:	1109122-01	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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PCB'S IN SOIL		SW8082				Analyst: das
Aroclor 1262	ND	0.424		µg/Kg-dry	1	9/19/2011
Aroclor 1268	ND	0.424		µg/Kg-dry	1	9/19/2011
Surr: Decachlorobiphenyl	64.9	56.5-130		%REC	1	9/19/2011

CLIENT: Maul, Foster & Alongi
Work Order: 1109122
Project: Port of Camas, Washougal/0229.04.03

ANALYTICAL QC SUMMARY REPORT**TestCode: 6010_S**

Sample ID: MBLK-29474	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/20/2011	Run ID: TJA IRIS_110921A						
Client ID: ZZZZZ	Batch ID: 29474	TestNo: E6010		Analysis Date: 9/21/2011	SeqNo: 778348						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	2.00									
Barium	ND	1.00									
Cadmium	ND	0.100									
Chromium	ND	0.500									
Gold	0.78	5.00									J
Lead	ND	2.00									
Selenium	ND	2.00									
Silver	ND	2.00									
Tin	3.5	5.00									J

Sample ID: LCS-29474	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/20/2011	Run ID: TJA IRIS_110921A						
Client ID: ZZZZZ	Batch ID: 29474	TestNo: E6010		Analysis Date: 9/21/2011	SeqNo: 778349						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	95.85	2.00	100	0	95.8	85.1	107	0	0		
Barium	49.86	1.00	50	0	99.7	85.7	110	0	0		
Cadmium	4.89	0.100	5	0	97.8	87.2	109	0	0		
Chromium	25.22	0.500	25	0	101	84	113	0	0		
Gold	244.5	5.00	250	0	97.8	80	120	0	0		
Lead	100.4	2.00	100	0	100	84.9	109	0	0		
Selenium	95.41	2.00	100	0	95.4	88.7	111	0	0		
Silver	50.07	2.00	50	0	100	79.3	109	0	0		
Tin	52.18	5.00	50	0	104	83.9	114	0	0		

Sample ID: 1109130-02AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/20/2011	Run ID: TJA IRIS_110921A						
Client ID: ZZZZZ	Batch ID: 29474	TestNo: E6010		Analysis Date: 9/21/2011	SeqNo: 778352						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	68.89	1.52	75.76	0	90.9	86.1	109	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109122
Project: Port of Camas, Washougal/0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 1109130-02AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/20/2011	Run ID: TJA IRIS_110921A						
Client ID: ZZZZZ	Batch ID: 29474	TestNo: E6010		Analysis Date: 9/21/2011	SeqNo: 778352						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Barium	130.5	0.758	37.88	172.4	-111	75	125	0	0		S
Cadmium	3.583	0.0758	3.788	0	94.6	86.4	113	0	0		
Chromium	31.48	0.379	18.94	18.76	67.1	75	121	0	0		S, RP
Gold	171	3.79	189.4	0	90.3	75	125	0	0		
Lead	82.95	1.52	75.76	48.72	45.2	84.9	109	0	0		S, RP
Selenium	66.06	1.52	75.76	0	87.2	77.7	116	0	0		
Silver	38.29	1.52	37.88	1.971	95.9	75	123	0	0		
Tin	36.98	3.79	37.88	4.486	85.8	75	125	0	0		

Sample ID: 1109130-02AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/20/2011	Run ID: TJA IRIS_110921A						
Client ID: ZZZZZ	Batch ID: 29474	TestNo: E6010		Analysis Date: 9/21/2011	SeqNo: 778353						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	68.98	1.54	76.92	0	89.7	86.1	109	68.89	0.143	20	
Barium	121.7	0.769	38.46	172.4	-132	75	125	130.5	6.95	20	S
Cadmium	3.569	0.0769	3.846	0	92.8	86.4	113	3.583	0.394	20	
Chromium	38.15	0.385	19.23	18.76	101	75	121	31.48	19.2	20	
Gold	171.2	3.85	192.3	0	89	75	125	171	0.144	20	
Lead	127.6	1.54	76.92	48.72	103	84.9	109	82.95	42.4	20	R
Selenium	66.15	1.54	76.92	0	86	77.7	116	66.06	0.129	20	
Silver	37.91	1.54	38.46	1.971	93.4	75	123	38.29	0.998	20	
Tin	45.65	3.85	38.46	4.486	107	75	125	36.98	21.0	20	R

Sample ID: 1109130-02ADUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/20/2011	Run ID: TJA IRIS_110921A						
Client ID: ZZZZZ	Batch ID: 29474	TestNo: E6010		Analysis Date: 9/21/2011	SeqNo: 778351						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	1.49	0	0	0	0	0	0	0	20	
Barium	78.58	0.746	0	0	0	0	0	172.4	74.8	20	R
Cadmium	0.04478	0.0746	0	0	0	0	0	0	0	20	J
Chromium	17.67	0.373	0	0	0	0	0	18.76	5.98	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109122
Project: Port of Camas, Washougal/0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 1109130-02ADUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 9/20/2011	Run ID: TJA IRIS_110921A						
Client ID: ZZZZZ	Batch ID: 29474	TestNo: E6010		Analysis Date: 9/21/2011	SeqNo: 778351						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gold	ND	3.73	0	0	0	0	0	0	0	20	
Lead	41.81	1.49	0	0	0	0	0	48.72	15.3	20	
Selenium	ND	1.49	0	0	0	0	0	0	0	20	
Silver	1.925	1.49	0	0	0	0	0	1.971	2.34	20	
Tin	2.754	3.73	0	0	0	0	0	4.486	0	20	J

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_110921A			
Client ID: ZZZZZ		Batch ID: 29474		TestNo: E6010				Analysis Date: 9/21/2011		SeqNo: 778358			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	96.41	2.00	100	0	96.4	90	110	0	0		
Barium	48.75	1.00	50	0	97.5	90	110	0	0		
Cadmium	4.84	0.100	5	0	96.8	90	110	0	0		
Chromium	23.86	0.500	25	0	95.4	90	110	0	0		
Gold	244.1	5.00	250	0	97.6	90	110	0	0		
Lead	97.35	2.00	100	0	97.4	90	110	0	0		
Selenium	93.19	2.00	100	0	93.2	90	110	0	0		
Silver	49.64	2.00	50	0	99.3	90	110	0	0		
Tin	48.86	5.00	50	0	97.7	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_110921A						
Client ID: ZZZZZ	Batch ID: 29474	TestNo: E6010		Analysis Date: 9/21/2011	SeqNo: 778362						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	96.29	2.00	100	0	96.3	90	110	0	0		
Barium	48.2	1.00	50	0	96.4	90	110	0	0		
Cadmium	4.8	0.100	5	0	96	90	110	0	0		
Chromium	24.88	0.500	25	0	99.5	90	110	0	0		
Gold	243.1	5.00	250	0	97.2	90	110	0	0		
Lead	96.77	2.00	100	0	96.8	90	110	0	0		
Selenium	93.28	2.00	100	0	93.3	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109122
Project: Port of Camas, Washougal/0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_110921A			
Client ID: ZZZZZ		Batch ID: 29474		TestNo: E6010				Analysis Date: 9/21/2011		SeqNo: 778362			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Silver	50.68	2.00	50	0	101	90	110	0	0	
Tin	48.43	5.00	50	0	96.9	90	110	0	0	

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_110921A			
Client ID: ZZZZZ		Batch ID: 29474		TestNo: E6010				Analysis Date: 9/21/2011		SeqNo: 778625			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gold	241.6	500	250	0	96.6	90	110	0	0	
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Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_110921A	
Client ID: ZZZZZ		Batch ID: 29474		TestNo: E6010				Analysis Date: 9/21/2011		SeqNo: 778628	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gold	255.5	500	250	0	102	90	110	0	0	
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Sample ID: ICV		SampType: ICV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_110921A	
Client ID: ZZZZZ		Batch ID: 29474		TestNo: E6010				Analysis Date: 9/21/2011		SeqNo: 778347	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	98.87	2.00	100	0	98.9	90	110	0	0	
Barium	48.5	1.00	50	0	97	90	110	0	0	
Cadmium	4.8	0.100	5	0	96	90	110	0	0	
Chromium	24.44	0.500	25	0	97.8	90	110	0	0	
Gold	242.6	5.00	250	0	97	90	110	0	0	
Lead	98.94	2.00	100	0	98.9	90	110	0	0	
Selenium	94.26	2.00	100	0	94.3	90	110	0	0	
Silver	51.42	2.00	50	0	103	90	110	0	0	
Tin	48.66	5.00	50	0	97.3	90	110	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109122
Project: Port of Camas, Washougal/0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: ICV	SampType: ICV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_110921A						
Client ID: ZZZZZ	Batch ID: 29474	TestNo: E6010		Analysis Date: 9/21/2011	SeqNo: 778624						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	253	500	250	0	101	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109122
Project: Port of Camas, Washougal/0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: MB-2945662	SampType: MBLK	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 9/19/2011	Run ID: GCK_110919A						
Client ID: ZZZZZ	Batch ID: 29456	TestNo: SW8082		Analysis Date: 9/19/2011	SeqNo: 777863						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Aroclor 1262
Aroclor 1268

ND
ND
ND
ND
ND
ND
ND
ND
ND

0.333
0.333
0.333
0.333
0.333
0.333
0.333
0.333
0.333

6667
0

112
56.5

130

0

0

Sample ID: LCS-29456	SampType: LCS	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 9/19/2011	Run ID: GCK_110919A						
Client ID: ZZZZZ	Batch ID: 29456	TestNo: SW8082		Analysis Date: 9/19/2011	SeqNo: 777862						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260

49.87

0.333

66.67

0

74.8

44.3

137

0

0

Sample ID: 1109122-01AMS	SampType: MS	TestCode: 8082LL_S	Units: µg/Kg-dry	Prep Date: 9/16/2011	Run ID: GCK_110919A						
Client ID: Open Pit 1-S-20.5	Batch ID: 29456	TestNo: SW8082		Analysis Date: 9/19/2011	SeqNo: 777864						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260

27.26

0.424

84.93

0

32.1

56.6

123

0

0

S,MI

Sample ID: 1109122-01AMSD	SampType: MSD	TestCode: 8082LL_S	Units: µg/Kg-dry	Prep Date: 9/16/2011	Run ID: GCK_110919A						
Client ID: Open Pit 1-S-20.5	Batch ID: 29456	TestNo: SW8082		Analysis Date: 9/19/2011	SeqNo: 777865						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260

83.14

0.424

84.93

0

97.9

56.6

123

27.26

101

20

R,MI

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109122
Project: Port of Camas, Washougal/0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: CCB-29456	SampType: CCB	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 9/19/2011	Run ID: GCK_110919A						
Client ID: ZZZZZ	Batch ID: 29456	TestNo: SW8082		Analysis Date: 9/19/2011	SeqNo: 778023						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1260	ND	0.333	0	0	0	0	0	0	0		
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Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_110919A						
Client ID: ZZZZZ	Batch ID: 29456	TestNo: SW8082	Analysis Date: 9/19/2011	SeqNo: 777861							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	71	0.333	66.67	0	107	85	115	0	0		
Aroclor 1260	66.67	0.333	66.67	0	100	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_110919A						
Client ID: ZZZZZ	Batch ID: 29456	TestNo: SW8082	Analysis Date: 9/19/2011	SeqNo: 777870							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	60.73	0.333	66.67	0	91.1	85	115	0	0		
Aroclor 1260	66.93	0.333	66.67	0	100	85	115	0	0		

Sample ID: CCV		SampType: CCV		TestCode: 8082LL_S		Units: µg/Kg		Prep Date:		Run ID: GCK_110919A			
Client ID: ZZZZZ		Batch ID: 29456		TestNo: SW8082				Analysis Date: 9/19/2011		SeqNo: 778022			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1260	66.67	0.333	66.67	0	100	85	115	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109122
Project: Port of Camas, Washougal/0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: MB-29488	SampType: MBLK	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 9/21/2011	Run ID: CVAA_110921A
Client ID: ZZZZZ	Batch ID: 29488	TestNo: SW7471		Analysis Date: 9/21/2011	SeqNo: 778383
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury ND 0.0167

Sample ID: LCS-29488	SampType: LCS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 9/21/2011	Run ID: CVAA_110921A
Client ID: ZZZZZ	Batch ID: 29488	TestNo: SW7471		Analysis Date: 9/21/2011	SeqNo: 778382
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.2512 0.0167 0.25 0 100 88.2 113 0 0

Sample ID: 1109130-02AMS	SampType: MS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 9/21/2011	Run ID: CVAA_110921A
Client ID: ZZZZZ	Batch ID: 29488	TestNo: SW7471		Analysis Date: 9/21/2011	SeqNo: 778379
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.4388 0.0157 0.2344 0.5262 -37.3 78.1 125 0 0 S,MI

Sample ID: 1109130-02AMSD	SampType: MSD	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 9/21/2011	Run ID: CVAA_110921A
Client ID: ZZZZZ	Batch ID: 29488	TestNo: SW7471		Analysis Date: 9/21/2011	SeqNo: 778380
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.8008 0.0167 0.25 0.5262 110 78.1 125 0.4388 58.4 20 R,MI

Sample ID: 1109130-02ADUP	SampType: DUP	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 9/21/2011	Run ID: CVAA_110921A
Client ID: ZZZZZ	Batch ID: 29488	TestNo: SW7471		Analysis Date: 9/21/2011	SeqNo: 778378
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.4332 0.0139 0 0 0 0 0 0.5262 19.4 20

Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_110921A
Client ID: ZZZZZ	Batch ID: 29488	TestNo: SW7471		Analysis Date: 9/21/2011	SeqNo: 778384
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109122
Project: Port of Camas, Washougal/0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_110921A						
Client ID: ZZZZZ	Batch ID: 29488	TestNo: SW7471		Analysis Date: 9/21/2011	SeqNo: 778384						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2587	0.0167	0.25	0	103	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109122
Project: Port of Camas, Washougal/0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: MB-29448	SampType: MBLK	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 9/16/2011	Run ID: 5975Q_110919A						
Client ID: ZZZZZ	Batch ID: 29448	TestNo: 8270SIM	Analysis Date: 9/19/2011	SeqNo: 777665							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	6.67									
2-Methylnaphthalene	ND	6.67									
Acenaphthene	ND	6.67									
Acenaphthylene	ND	6.67									
Anthracene	0.6667	6.67									J
Benz(a)anthracene	3.333	6.67									J
Benzo(a)pyrene	2.667	6.67									J
Benzo(b)fluoranthene	3.333	6.67									J
Benzo(g,h,i)perylene	3.333	6.67									J
Benzo(k)fluoranthene	2.667	6.67									J
Chrysene	2.667	6.67									J
Dibenz(a,h)anthracene	4.667	6.67									J
Fluoranthene	2.667	6.67									J
Fluorene	ND	6.67									
Indeno(1,2,3-cd)pyrene	4	6.67									J
Naphthalene	2	6.67									J
Phenanthrene	2	6.67									J
Pyrene	3.333	6.67									J
Surr: 2-Fluorobiphenyl	4296	0	6667	0	64.4	42.6	128	0	0		
Surr: Nitrobenzene-d5	6031	0	6667	0	90.5	21.7	155	0	0		
Surr: p-Terphenyl-d14	7745	0	6667	0	116	44.9	155	0	0		

Sample ID: LCS-29448	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 9/16/2011	Run ID: 5975Q_110919A						
Client ID: ZZZZZ	Batch ID: 29448	TestNo: 8270SIM		Analysis Date: 9/19/2011	SeqNo: 777832						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	270.7	6.67	333.3	0	81.2	39.6	107	0	0		
Benzo(g,h,i)perylene	313.3	6.67	333.3	0	94	49.7	135	0	0		
Chrysene	316.7	6.67	333.3	0	95	57.1	130	0	0		
Naphthalene	253.3	6.67	333.3	0	76	29.1	109	0	0		
Phenanthrene	322.7	6.67	333.3	0	96.8	48.4	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109122
Project: Port of Camas, Washougal/0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: LCS-29448	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 9/16/2011	Run ID: 5975Q_110919A						
Client ID: ZZZZZ	Batch ID: 29448	TestNo: 8270SIM		Analysis Date: 9/19/2011	SeqNo: 777832						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Pyrene	301.3	6.67	333.3	0	90.4	47.2	134	0	0	
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Sample ID: 1109110-05AMS	SampType: MS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 9/16/2011	Run ID: 5975Q_110919A						
Client ID: ZZZZZ	Batch ID: 29448	TestNo: 8270SIM		Analysis Date: 9/19/2011	SeqNo: 777833						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	216	6.67	333.3	2	64.2	33.7	111	0	0	
Benzo(g,h,i)perylene	313.3	6.67	333.3	69.33	73.2	15	128	0	0	
Chrysene	338	6.67	333.3	63.33	82.4	37.5	125	0	0	
Naphthalene	198	6.67	333.3	4.667	58	27.7	108	0	0	
Phenanthrene	335.3	6.67	333.3	30	91.6	20.2	139	0	0	
Pyrene	310	6.67	333.3	52	77.4	26.8	142	0	0	

Sample ID: 1109110-05AMSD	SampType: MSD	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 9/16/2011	Run ID: 5975Q_110919A						
Client ID: ZZZZZ	Batch ID: 29448	TestNo: 8270SIM		Analysis Date: 9/19/2011	SeqNo: 777834						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	202.7	6.67	333.3	2	60.2	33.7	111	216	6.37	20
Benzo(g,h,i)perylene	284.7	6.67	333.3	69.33	64.6	15	128	313.3	9.59	20
Chrysene	313.3	6.67	333.3	63.33	75	37.5	125	338	7.57	20
Naphthalene	180	6.67	333.3	4.667	52.6	27.7	108	198	9.52	20
Phenanthrene	308	6.67	333.3	30	83.4	20.2	139	335.3	8.50	20
Pyrene	266	6.67	333.3	52	64.2	26.8	142	310	15.3	20

Sample ID: CCV-29448	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5975Q_110919A						
Client ID: ZZZZZ	Batch ID: 29448	TestNo: 8270SIM		Analysis Date: 9/19/2011	SeqNo: 777664						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	74	6.67	66.67	0	111	70	130	0	0	
2-Methylnaphthalene	70.67	6.67	66.67	0	106	70	130	0	0	
Acenaphthene	68.67	6.67	66.67	0	103	70	130	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1109122
Project: Port of Camas, Washougal/0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCV-29448	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5975Q_110919A						
Client ID: ZZZZZ	Batch ID: 29448	TestNo: 8270SIM		Analysis Date: 9/19/2011	SeqNo: 777664						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	64.67	6.67	66.67	0	97	70	130	0	0		
Anthracene	69.33	6.67	66.67	0	104	70	130	0	0		
Benz(a)anthracene	65.33	6.67	66.67	0	98	70	130	0	0		
Benzo(a)pyrene	73.33	6.67	66.67	0	110	70	130	0	0		
Benzo(b)fluoranthene	74	6.67	66.67	0	111	70	130	0	0		
Benzo(g,h,i)perylene	59.33	6.67	66.67	0	89	70	130	0	0		
Benzo(k)fluoranthene	76	6.67	66.67	0	114	70	130	0	0		
Chrysene	69.33	6.67	66.67	0	104	70	130	0	0		
Dibenz(a,h)anthracene	63.33	6.67	66.67	0	95	70	130	0	0		
Fluoranthene	76	6.67	66.67	0	114	70	130	0	0		
Fluorene	70.67	6.67	66.67	0	106	70	130	0	0		
Indeno(1,2,3-cd)pyrene	65.33	6.67	66.67	0	98	70	130	0	0		
Naphthalene	70.67	6.67	66.67	0	106	70	130	0	0		
Phenanthrene	72	6.67	66.67	0	108	70	130	0	0		
Pyrene	76	6.67	66.67	0	114	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

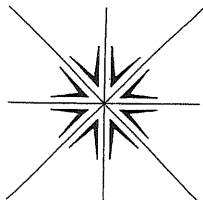
B - Analyte detected in the associated Method Blank

KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result great than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.

Page 1 of 1



**11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336**

Company Maul Foster Alongi

Address 2001 NW 19th Suite 200
Portland, OR, 97209

Phone ^{PW} ~~503~~ 971-544-2139 Fax 971 544 2140

Project No. 0229.04.03 Project Name Port of Camas Washington

Project Site Location OR WA ~~X~~ Other

Invoice To MFA P.O. No. _____

Signature MB

Printed Philipp Wiescher

Signature_____

Printed _____

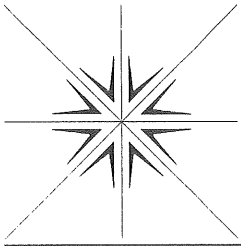
☒ Normal 5-7 Business Days

☐ Rush

Specify

Rush Analyses Must Be Scheduled With The Lab In Advance

[illegible]



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
(503) 607-1331
Fax (503) 607-1336

October 10, 2011

Christina Johnson
Maul, Foster & Alongi
7223 NE Hazel Dell Avenue
Suite B
Vancouver, WA 98665
TEL: (360) 694-2691
FAX: (360) 906-1958

RE: Port of Camas / 0229.04.03

Dear Christina Johnson:

Order No.: 1110043

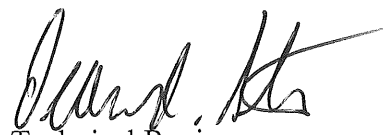
Specialty Analytical received 2 samples on 9/7/2011 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,


Cindy Hillyard
Project Manager


Technical Review

Specialty Analytical

Date: 10-Oct-11

CLIENT: Maul, Foster & Alongi
Project: Port of Camas / 0229.04.03

Lab Order: 1110043

Lab ID: 1110043-01

Collection Date: 9/6/2011 11:15:00 AM

Client Sample ID: TP-4-3

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP		E6010		Analyst: cmt		
Arsenic	2.53	2.33		mg/Kg-dry	1	10/6/2011 4:45:05 PM
Barium	138	1.16		mg/Kg-dry	1	10/6/2011 4:45:05 PM
Cadmium	0.198	0.116		mg/Kg-dry	1	10/6/2011 4:45:05 PM
Chromium	19.5	0.581		mg/Kg-dry	1	10/6/2011 4:45:05 PM
Lead	12.6	2.33		mg/Kg-dry	1	10/6/2011 4:45:05 PM
Selenium	ND	2.33		mg/Kg-dry	1	10/6/2011 4:45:05 PM
Silver	ND	2.33		mg/Kg-dry	1	10/6/2011 4:45:05 PM
MERCURY, TOTAL		SW7471		Analyst: zau		
Mercury	0.0487	0.0202	HT	mg/Kg-dry	1	10/6/2011

Lab ID: 1110043-02

Collection Date: 9/6/2011 4:05:00 PM

Client Sample ID: SS-1-1.5

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LOW LEVEL PAH BY GC/MS		8270SIM		Analyst: bda		
Acenaphthene	9.24	8.40	HT	µg/Kg-dry	1	10/7/2011 11:07:00 AM
Acenaphthylene	12.6	8.40	HT	µg/Kg-dry	1	10/7/2011 11:07:00 AM
Anthracene	16.0	8.40	HT	µg/Kg-dry	1	10/7/2011 11:07:00 AM
Benz(a)anthracene	31.1	8.40	HT	µg/Kg-dry	1	10/7/2011 11:07:00 AM
Benzo(a)pyrene	45.3	8.40	HT	µg/Kg-dry	1	10/7/2011 11:07:00 AM
Benzo(b)fluoranthene	51.2	8.40	HT	µg/Kg-dry	1	10/7/2011 11:07:00 AM
Benzo(g,h,i)perylene	52.1	8.40	HT	µg/Kg-dry	1	10/7/2011 11:07:00 AM
Benzo(k)fluoranthene	22.7	8.40	HT	µg/Kg-dry	1	10/7/2011 11:07:00 AM
Chrysene	39.5	8.40	HT	µg/Kg-dry	1	10/7/2011 11:07:00 AM
Dibenz(a,h)anthracene	ND	8.40	HT	µg/Kg-dry	1	10/7/2011 11:07:00 AM
Fluoranthene	56.3	8.40	HT	µg/Kg-dry	1	10/7/2011 11:07:00 AM
Fluorene	9.24	8.40	HT	µg/Kg-dry	1	10/7/2011 11:07:00 AM
Indeno(1,2,3-cd)pyrene	41.1	8.40	HT	µg/Kg-dry	1	10/7/2011 11:07:00 AM
Naphthalene	26.0	8.40	HT	µg/Kg-dry	1	10/7/2011 11:07:00 AM
Phenanthrene	63.0	8.40	HT	µg/Kg-dry	1	10/7/2011 11:07:00 AM
Pyrene	51.2	8.40	HT	µg/Kg-dry	1	10/7/2011 11:07:00 AM
Surr: 2-Fluorobiphenyl	78.9	42.6-128		%REC	1	10/7/2011 11:07:00 AM
Surr: Nitrobenzene-d5	88.8	21.7-155		%REC	1	10/7/2011 11:07:00 AM
Surr: p-Terphenyl-d14	70.5	44.9-155		%REC	1	10/7/2011 11:07:00 AM

CLIENT: Maul, Foster & Alongi
Work Order: 1110043
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT**TestCode: 6010_S**

Sample ID: MBLK-29631	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 10/6/2011	Run ID: TJA IRIS_111006B						
Client ID: ZZZZZ	Batch ID: 29631	TestNo: E6010		Analysis Date: 10/6/2011	SeqNo: 782674						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	2.00									
Barium	ND	1.00									
Cadmium	ND	0.100									
Chromium	ND	0.500									
Lead	ND	2.00									
Selenium	ND	2.00									
Silver	ND	2.00									

Sample ID: LCS-29631	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 10/6/2011	Run ID: TJA IRIS_111006B						
Client ID: ZZZZZ	Batch ID: 29631	TestNo: E6010		Analysis Date: 10/6/2011	SeqNo: 782675						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	92.16	2.00	100	0	92.2	85.1	107	0	0		
Barium	48.85	1.00	50	0	97.7	85.7	110	0	0		
Cadmium	4.72	0.100	5	0	94.4	87.2	109	0	0		
Chromium	23.61	0.500	25	0	94.4	84	113	0	0		
Lead	95.1	2.00	100	0	95.1	84.9	109	0	0		
Selenium	93.25	2.00	100	0	93.2	88.7	111	0	0		
Silver	39.21	2.00	50	0	78.4	79.3	109	0	0		S,O

Sample ID: 1109206-11CMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 10/6/2011	Run ID: TJA IRIS_111006B						
Client ID: ZZZZZ	Batch ID: 29631	TestNo: E6010		Analysis Date: 10/6/2011	SeqNo: 782678						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	82.23	1.85	92.59	1.404	87.3	86.1	109	0	0		
Barium	116.4	0.926	46.3	64.88	111	75	125	0	0		
Cadmium	4.083	0.0926	4.63	0	88.2	86.4	113	0	0		
Chromium	36.24	0.463	23.15	15.69	88.8	75	121	0	0		
Lead	80.31	1.85	92.59	0	86.7	84.9	109	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110043
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 1109206-11CMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 10/6/2011	Run ID: TJA IRIS_111006B						
Client ID: ZZZZZ	Batch ID: 29631	TestNo: E6010		Analysis Date: 10/6/2011	SeqNo: 782678						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium	78.77	1.85	92.59	0	85.1	77.7	116	0	0	
Silver	37.96	1.85	46.3	1.76	78.2	75	123	0	0	

Sample ID: 1109206-11CMSD		SampType: MSD		TestCode: 6010_S		Units: mg/Kg		Prep Date: 10/6/2011		Run ID: TJA IRIS_111006B	
Client ID: ZZZZZ		Batch ID: 29631		TestNo: E6010				Analysis Date: 10/6/2011		SeqNo: 782679	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	81.19	1.85	92.59	1.404	86.2	86.1	109	82.23	1.28	20
Barium	116.9	0.926	46.3	64.88	112	75	125	116.4	0.397	20
Cadmium	4.028	0.0926	4.63	0	87	86.4	113	4.083	1.37	20
Chromium	36.61	0.463	23.15	15.69	90.4	75	121	36.24	1.02	20
Lead	79.29	1.85	92.59	0	85.6	84.9	109	80.31	1.28	20
Selenium	79.64	1.85	92.59	0	86	77.7	116	78.77	1.10	20
Silver	37.68	1.85	46.3	1.76	77.6	75	123	37.96	0.759	20

Sample ID: 1109206-11CDUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 10/6/2011	Run ID: TJA IRIS_111006B						
Client ID: ZZZZZ	Batch ID: 29631	TestNo: E6010		Analysis Date: 10/6/2011	SeqNo: 782677						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	1.96	0	0	0	0	0	1.404	0	20
Barium	67.08	0.980	0	0	0	0	0	64.88	3.34	20
Cadmium	ND	0.0980	0	0	0	0	0	0	0	20
Chromium	13.21	0.490	0	0	0	0	0	15.69	17.2	20
Lead	ND	1.96	0	0	0	0	0	0	0	20
Selenium	ND	1.96	0	0	0	0	0	0	0	20
Silver	1.559	1.96	0	0	0	0	0	1.76	0	20

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_111006B			
Client ID: ZZZZZ		Batch ID: 29631		TestNo: E6010				Analysis Date: 10/6/2011		SeqNo: 782683			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110043
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_111006B						
Client ID: ZZZZZ	Batch ID: 29631	TestNo: E6010		Analysis Date: 10/6/2011	SeqNo: 782683						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	100.6	2.00	100	0	101	90	110	0	0		
Barium	52.47	1.00	50	0	105	90	110	0	0		
Cadmium	5.15	0.100	5	0	103	90	110	0	0		
Chromium	25.32	0.500	25	0	101	90	110	0	0		
Lead	103.4	2.00	100	0	103	90	110	0	0		
Selenium	101.9	2.00	100	0	102	90	110	0	0		
Silver	47.95	2.00	50	0	95.9	90	110	0	0		

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_111006B		
Client ID: ZZZZZ		Batch ID: 29631		TestNo: E6010				Analysis Date: 10/6/2011		SeqNo: 782693		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	102.8	2.00	100	0	103	90	110	0	0		
Barium	52.43	1.00	50	0	105	90	110	0	0		
Cadmium	5.18	0.100	5	0	104	90	110	0	0		
Chromium	25.65	0.500	25	0	103	90	110	0	0		
Lead	104.1	2.00	100	0	104	90	110	0	0		
Selenium	103.8	2.00	100	0	104	90	110	0	0		
Silver	48.04	2.00	50	0	96.1	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_111006B						
Client ID: ZZZZZ	Batch ID: 29631	TestNo: E6010		Analysis Date: 10/6/2011	SeqNo: 782696						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	102.3	2.00	100	0	102	90	110	0	0		
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Sample ID: ICV		SampType: ICV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_111006B	
Client ID: ZZZZZ		Batch ID: 29631		TestNo: E6010				Analysis Date: 10/6/2011		SeqNo: 782673	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	98.24	2.00	100	0	98.2	90	110	0	0		
---------	-------	------	-----	---	------	----	-----	---	---	--	--

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110043
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: ICV	SampType: ICV	TestCode: 6010_S	Units: mg/Kg	Prep Date:				Run ID: TJA IRIS_111006B			
Client ID: ZZZZZ	Batch ID: 29631	TestNo: E6010	Analysis Date: 10/6/2011				SeqNo: 782673				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	51.66	1.00	50	0	103	90	110	0	0		
Cadmium	5.1	0.100	5	0	102	90	110	0	0		
Chromium	25.79	0.500	25	0	103	90	110	0	0		
Lead	103	2.00	100	0	103	90	110	0	0		
Selenium	98.83	2.00	100	0	98.8	90	110	0	0		
Silver	47.11	2.00	50	0	94.2	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110043
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: MB-29632	SampType: MBLK	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 10/6/2011	Run ID: CVAA_111006A
Client ID: ZZZZZ	Batch ID: 29632	TestNo: SW7471		Analysis Date: 10/6/2011	SeqNo: 782329
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury ND 0.0167

Sample ID: LCS-29632	SampType: LCS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 10/6/2011	Run ID: CVAA_111006A
Client ID: ZZZZZ	Batch ID: 29632	TestNo: SW7471		Analysis Date: 10/6/2011	SeqNo: 782328
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.2541 0.0167 0.25 0 102 88.2 113 0 0

Sample ID: 1110043-01AMS	SampType: MS	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 10/6/2011	Run ID: CVAA_111006A
Client ID: TP-4-3	Batch ID: 29632	TestNo: SW7471		Analysis Date: 10/6/2011	SeqNo: 782325
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.3186 0.0189 0.2834 0.04872 95.2 78.1 125 0 0 HT

Sample ID: 1110043-01AMSD	SampType: MSD	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 10/6/2011	Run ID: CVAA_111006A
Client ID: TP-4-3	Batch ID: 29632	TestNo: SW7471		Analysis Date: 10/6/2011	SeqNo: 782326
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.3394 0.0189 0.2834 0.04872 103 78.1 125 0.3186 6.32 20 HT

Sample ID: 1110043-01ADUP	SampType: DUP	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 10/6/2011	Run ID: CVAA_111006A
Client ID: TP-4-3	Batch ID: 29632	TestNo: SW7471		Analysis Date: 10/6/2011	SeqNo: 782324
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.04256 0.0202 0 0 0 0 0 0.04872 13.5 20 HT

Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_111006A
Client ID: ZZZZZ	Batch ID: 29632	TestNo: SW7471		Analysis Date: 10/6/2011	SeqNo: 782327
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110043
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_111006A						
Client ID: ZZZZZ	Batch ID: 29632	TestNo: SW7471		Analysis Date: 10/6/2011	SeqNo: 782327						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.258	0.0167	0.25	0	103	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110043
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: MB-29637	SampType: MBLK	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 10/6/2011	Run ID: 5975Q_111007A						
Client ID: ZZZZZ	Batch ID: 29637	TestNo: 8270SIM		Analysis Date: 10/7/2011	SeqNo: 782861						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	ND	6.67									
Acenaphthylene	ND	6.67									
Anthracene	ND	6.67									
Benz(a)anthracene	2	6.67									J
Benzo(a)pyrene	0.6667	6.67									J
Benzo(b)fluoranthene	1.333	6.67									J
Benzo(g,h,i)perylene	ND	6.67									
Benzo(k)fluoranthene	0.6667	6.67									J
Chrysene	2	6.67									J
Dibenz(a,h)anthracene	0.6667	6.67									J
Fluoranthene	1.333	6.67									J
Fluorene	ND	6.67									
Indeno(1,2,3-cd)pyrene	ND	6.67									
Naphthalene	2	6.67									J
Phenanthrene	0.6667	6.67									J
Pyrene	1.333	6.67									J
Surr: 2-Fluorobiphenyl	4309	0	6667	0	64.6	42.6	128	0	0		
Surr: Nitrobenzene-d5	5830	0	6667	0	87.4	21.7	155	0	0		
Surr: p-Terphenyl-d14	6182	0	6667	0	92.7	44.9	155	0	0		

Sample ID: LCS-29637	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 10/6/2011	Run ID: 5975Q_111007A						
Client ID: ZZZZZ	Batch ID: 29637	TestNo: 8270SIM		Analysis Date: 10/7/2011	SeqNo: 782863						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	236.7	6.67	333.3	0	71	39.6	107	0	0		
Benzo(g,h,i)perylene	284.7	6.67	333.3	0	85.4	49.7	135	0	0		
Chrysene	278.7	6.67	333.3	0	83.6	57.1	130	0	0		
Naphthalene	216	6.67	333.3	0	64.8	29.1	109	0	0		
Phenanthrene	277.3	6.67	333.3	0	83.2	48.4	115	0	0		
Pyrene	235.3	6.67	333.3	0	70.6	47.2	134	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110043
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: 1110044-01AMS	SampType: MS	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 10/6/2011	Run ID: 5975Q_111007A						
Client ID: ZZZZZ	Batch ID: 29637	TestNo: 8270SIM		Analysis Date: 10/7/2011	SeqNo: 783016						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	324.4	9.43	471.5	3.772	68	33.7	111	0	0		
Benzo(g,h,i)perylene	405.5	9.43	471.5	33.95	78.8	15	128	0	0		
Chrysene	385.7	9.43	471.5	38.66	73.6	37.5	125	0	0		
Naphthalene	334.7	9.43	471.5	4.715	70	27.7	108	0	0		
Phenanthrene	374.4	9.43	471.5	54.69	67.8	20.2	139	0	0		
Pyrene	298	9.43	471.5	50.92	52.4	26.8	142	0	0		

Sample ID: 1110044-01AMSD	SampType: MSD	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 10/6/2011	Run ID: 5975Q_111007A						
Client ID: ZZZZZ	Batch ID: 29637	TestNo: 8270SIM		Analysis Date: 10/7/2011	SeqNo: 783017						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	335.7	9.43	471.5	3.772	70.4	33.7	111	324.4	3.43	20	
Benzo(g,h,i)perylene	375.3	9.43	471.5	33.95	72.4	15	128	405.5	7.73	20	
Chrysene	350.8	9.43	471.5	38.66	66.2	37.5	125	385.7	9.48	20	
Naphthalene	324.4	9.43	471.5	4.715	67.8	27.7	108	334.7	3.15	20	
Phenanthrene	401.7	9.43	471.5	54.69	73.6	20.2	139	374.4	7.05	20	
Pyrene	251.8	9.43	471.5	50.92	42.6	26.8	142	298	16.8	20	

Sample ID: CCV-29637	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5975Q_111007A						
Client ID: ZZZZZ	Batch ID: 29637	TestNo: 8270SIM		Analysis Date: 10/7/2011	SeqNo: 782860						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	70.67	6.67	66.67	0	106	70	130	0	0		
Acenaphthylene	68.67	6.67	66.67	0	103	70	130	0	0		
Anthracene	71.33	6.67	66.67	0	107	70	130	0	0		
Benz(a)anthracene	68	6.67	66.67	0	102	70	130	0	0		
Benzo(a)pyrene	74	6.67	66.67	0	111	70	130	0	0		
Benzo(b)fluoranthene	72	6.67	66.67	0	108	70	130	0	0		
Benzo(g,h,i)perylene	72.67	6.67	66.67	0	109	70	130	0	0		
Benzo(k)fluoranthene	78.67	6.67	66.67	0	118	70	130	0	0		
Chrysene	79.33	6.67	66.67	0	119	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110043
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCV-29637	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5975Q_111007A						
Client ID: ZZZZZ	Batch ID: 29637	TestNo: 8270SIM		Analysis Date: 10/7/2011	SeqNo: 782860						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	77.33	6.67	66.67	0	116	70	130	0	0		
Fluoranthene	79.33	6.67	66.67	0	119	70	130	0	0		
Fluorene	76	6.67	66.67	0	114	70	130	0	0		
Indeno(1,2,3-cd)pyrene	79.33	6.67	66.67	0	119	70	130	0	0		
Naphthalene	71.33	6.67	66.67	0	107	70	130	0	0		
Phenanthrene	78	6.67	66.67	0	117	70	130	0	0		
Pyrene	64.67	6.67	66.67	0	97	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

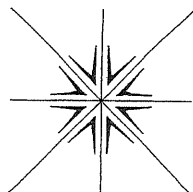
KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result great than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.

CHAIN OF CUSTODY RECORD

Page 1 of 1



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Contact Person/Project Manager Christina Johnson

Company WFA

Address 7223 NE Hazel Dell Ave

Vancouver, WA

Phone 360-433-0249 Fax —

Project No. 0229.04.03 Project Name Port of Canas

Project Site Location OR — WA X Other —

Invoice To — P.O. No. —

Collected By: [Signature]

Signature [Signature]

Printed Christina Johnson

Signature —

Printed —

Turn Around Time

☒ Normal 5-7 Business Days

☐ Rush —

Specify

Rush Analyses Must Be Scheduled With The Lab In Advance

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses										For Laboratory Use	
					NWTPH-HC10	NWTPH-GX	NWTPH-DX	PCPA-8 (WA)	PCBS (8802)	PAHs (8270 < SIM)					Lab Job No.	Shipped Via
9/6/11	4:55	TP-1-3	S	6	X				X	X					1109045	1110043
	9:45	TP-2-3.5	S	5	X				X	X					Specialty	
	10:45	TP-3-3	S	6	X				X	X						
	11:15	TP-4-3	S	6	X			X	X	X						
	13:15	TP-5-8	S	6	X			X	X	X						
	13:05	TP-5-16.5	S	6												
	15:00	TP-6-8	S	6	X				X	X						
	15:30	TP-7-2	S	1		X	X	X								
	15:45	TP-8-1.5	S	1		X	X	X								
	16:05	SS-1-1.5	S	1		X	X	X		X						
	16:15	SS-2-1.5	S	1		X	X	X								

For Laboratory Use

Lab Job No. 1109045 1110043

Shipped Via Specialty

Air Bill No. —

Temperature On Receipt 4 °C

Specialty Analytical Containers? Y / N

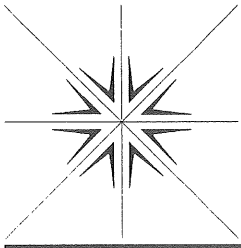
Specialty Analytical Trip Blanks? Y / N

Relinquished By: <u>[Signature]</u>	Date <u>9/6/11</u> Time <u>15:30</u>	Received By: <u>[Signature]</u>	Date <u>9/7/11</u> Time <u>14:10</u>
Company: <u>WFA</u>		Company: <u>Specialty</u>	
Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt. Samples held beyond 60 days subject to storage fee(s)		Received For Lab By: <u>Nikki Pappas</u>	Date <u>9/7/11</u> Time <u>14:10</u>

Copies: White-Original

Yellow-Project File

Pink-Customer Copy



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
(503) 607-1331
Fax (503) 607-1336

October 10, 2011

Christina Johnson
Maul, Foster & Alongi
7223 NE Hazel Dell Avenue
Suite B
Vancouver, WA 98665
TEL: (360) 694-2691
FAX: (360) 906-1958

RE: Port of Camas / 0229.04.03

Dear Christina Johnson:

Order No.: 1110044

Specialty Analytical received 2 samples on 9/8/2011 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,


Cindy Hillyard
Project Manager


Technical Review

Specialty Analytical

Date: 10-Oct-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110044
Project: Port of Camas / 0229.04.03
Lab ID: 1110044-01

Client Sample ID: SS-11-2
Collection Date: 9/7/2011 9:30:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LOW LEVEL PAH BY GC/MS						
		8270SIM				Analyst: bda
Acenaphthene	ND	9.43	HT	µg/Kg-dry	1	10/7/2011 11:34:00 AM
Acenaphthylene	ND	9.43	HT	µg/Kg-dry	1	10/7/2011 11:34:00 AM
Anthracene	13.2	9.43	HT	µg/Kg-dry	1	10/7/2011 11:34:00 AM
Benzo(a)anthracene	29.2	9.43	HT	µg/Kg-dry	1	10/7/2011 11:34:00 AM
Benzo(a)pyrene	37.7	9.43	HT	µg/Kg-dry	1	10/7/2011 11:34:00 AM
Benzo(b)fluoranthene	50.9	9.43	HT	µg/Kg-dry	1	10/7/2011 11:34:00 AM
Benzo(g,h,i)perylene	33.9	9.43	HT	µg/Kg-dry	1	10/7/2011 11:34:00 AM
Benzo(k)fluoranthene	16.0	9.43	HT	µg/Kg-dry	1	10/7/2011 11:34:00 AM
Chrysene	38.7	9.43	HT	µg/Kg-dry	1	10/7/2011 11:34:00 AM
Dibenz(a,h)anthracene	ND	9.43	HT	µg/Kg-dry	1	10/7/2011 11:34:00 AM
Fluoranthene	67.9	9.43	HT	µg/Kg-dry	1	10/7/2011 11:34:00 AM
Fluorene	ND	9.43	HT	µg/Kg-dry	1	10/7/2011 11:34:00 AM
Indeno(1,2,3-cd)pyrene	23.6	9.43	HT	µg/Kg-dry	1	10/7/2011 11:34:00 AM
Naphthalene	ND	9.43	HT	µg/Kg-dry	1	10/7/2011 11:34:00 AM
Phenanthrene	54.7	9.43	HT	µg/Kg-dry	1	10/7/2011 11:34:00 AM
Pyrene	50.9	9.43	HT	µg/Kg-dry	1	10/7/2011 11:34:00 AM
Surr: 2-Fluorobiphenyl	76.2	42.6-128		%REC	1	10/7/2011 11:34:00 AM
Surr: Nitrobenzene-d5	90.6	21.7-155		%REC	1	10/7/2011 11:34:00 AM
Surr: p-Terphenyl-d14	84.1	44.9-155		%REC	1	10/7/2011 11:34:00 AM

Specialty Analytical

Date: 10-Oct-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110044
Project: Port of Camas / 0229.04.03
Lab ID: 1110044-02

Client Sample ID: SS-14-1
Collection Date: 9/7/2011 1:00:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: rkg		
1,1,1,2-Tetrachloroethane	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
1,1,1-Trichloroethane	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
1,1,2,2-Tetrachloroethane	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
1,1,2-Trichloroethane	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
1,1-Dichloroethane	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
1,1-Dichloroethene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
1,1-Dichloropropene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
1,2,3-Trichlorobenzene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
1,2,3-Trichloropropane	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
1,2,4-Trichlorobenzene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
1,2,4-Trimethylbenzene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
1,2-Dibromo-3-chloropropane	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
1,2-Dibromoethane	ND	6.10	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
1,2-Dichlorobenzene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
1,2-Dichloroethane	ND	6.10	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
1,2-Dichloropropane	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
1,3,5-Trimethylbenzene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
1,3-Dichlorobenzene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
1,3-Dichloropropane	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
1,4-Dichlorobenzene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
2,2-Dichloropropane	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
2-Butanone	28.9	24.4	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
2-Chlorotoluene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
2-Hexanone	ND	24.4	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
4-Chlorotoluene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
4-Isopropyltoluene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
4-Methyl-2-pentanone	ND	24.4	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Acetone	163	61.0	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Benzene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Bromobenzene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Bromochloromethane	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Bromodichloromethane	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Bromoform	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Bromomethane	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Carbon disulfide	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Carbon tetrachloride	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Chlorobenzene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Chloroethane	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Chloroform	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Chloromethane	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
cis-1,2-Dichloroethene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM

Specialty Analytical

Date: 10-Oct-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110044
Project: Port of Camas / 0229.04.03
Lab ID: 1110044-02

Client Sample ID: SS-14-1
Collection Date: 9/7/2011 1:00:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS						
		SW8260B				Analyst: rkg
cis-1,3-Dichloropropene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Dibromochloromethane	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Dibromomethane	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Dichlorodifluoromethane	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Ethylbenzene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Hexachlorobutadiene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Isopropylbenzene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
m,p-Xylene	ND	24.4	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Methyl tert-butyl ether	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Methylene chloride	ND	61.0	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
n-Butylbenzene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
n-Propylbenzene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Naphthalene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
o-Xylene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
sec-Butylbenzene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Styrene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
tert-Butylbenzene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Tetrachloroethene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Toluene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
trans-1,2-Dichloroethene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
trans-1,3-Dichloropropene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Trichloroethene	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Trichlorofluoromethane	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Vinyl chloride	ND	12.2	HT	µg/Kg-dry	1	10/6/2011 6:56:00 PM
Surr: 1,2-Dichloroethane-d4	103	71.5-112	HT	%REC	1	10/6/2011 6:56:00 PM
Surr: 4-Bromofluorobenzene	97.0	75.7-122	HT	%REC	1	10/6/2011 6:56:00 PM
Surr: Dibromofluoromethane	121	64.3-124	HT	%REC	1	10/6/2011 6:56:00 PM
Surr: Toluene-d8	93.3	74.9-120	HT	%REC	1	10/6/2011 6:56:00 PM

CLIENT: Maul, Foster & Alongi
Work Order: 1110044
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT**TestCode: 8260_S**

Sample ID: MBLK-29644	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	Run ID: 5975X_111006A						
Client ID: ZZZZZ	Batch ID: 29644	TestNo: SW8260B		Analysis Date: 10/6/2011	SeqNo: 782440						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	10.0									
1,1,1-Trichloroethane	ND	10.0									
1,1,2,2-Tetrachloroethane	ND	10.0									
1,1,2-Trichloroethane	ND	10.0									
1,1-Dichloroethane	ND	10.0									
1,1-Dichloroethene	ND	10.0									
1,1-Dichloropropene	ND	10.0									
1,2,3-Trichlorobenzene	ND	10.0									
1,2,3-Trichloropropane	ND	10.0									
1,2,4-Trichlorobenzene	ND	10.0									
1,2,4-Trimethylbenzene	ND	10.0									
1,2-Dibromo-3-chloropropane	ND	10.0									
1,2-Dibromoethane	ND	5.00									
1,2-Dichlorobenzene	ND	10.0									
1,2-Dichloroethane	ND	5.00									
1,2-Dichloropropane	ND	10.0									
1,3,5-Trimethylbenzene	ND	10.0									
1,3-Dichlorobenzene	ND	10.0									
1,3-Dichloropropane	ND	10.0									
1,4-Dichlorobenzene	ND	10.0									
2,2-Dichloropropane	ND	10.0									
2-Butanone	ND	20.0									
2-Chlorotoluene	ND	10.0									
2-Hexanone	ND	20.0									
4-Chlorotoluene	ND	10.0									
4-Isopropyltoluene	ND	10.0									
4-Methyl-2-pentanone	ND	20.0									
Acetone	ND	50.0									
Benzene	ND	10.0									
Bromobenzene	ND	10.0									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110044
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: MBLK-29644	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	Run ID: 5975X_111006A						
Client ID: ZZZZZ	Batch ID: 29644	TestNo: SW8260B		Analysis Date: 10/6/2011	SeqNo: 782440						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromochloromethane	ND	10.0									
Bromodichloromethane	ND	10.0									
Bromoform	ND	10.0									
Bromomethane	ND	10.0									
Carbon disulfide	ND	10.0									
Carbon tetrachloride	ND	10.0									
Chlorobenzene	ND	10.0									
Chloroethane	ND	10.0									
Chloroform	ND	10.0									
Chloromethane	ND	10.0									
cis-1,2-Dichloroethene	ND	10.0									
cis-1,3-Dichloropropene	ND	10.0									
Dibromochloromethane	ND	10.0									
Dibromomethane	ND	10.0									
Dichlorodifluoromethane	ND	10.0									
Ethylbenzene	ND	10.0									
Hexachlorobutadiene	ND	10.0									
Isopropylbenzene	ND	10.0									
m,p-Xylene	ND	20.0									
Methyl tert-butyl ether	ND	10.0									
Methylene chloride	29.54	50.0									J
n-Butylbenzene	ND	10.0									
n-Propylbenzene	ND	10.0									
Naphthalene	1.61	10.0									J
o-Xylene	ND	10.0									
sec-Butylbenzene	ND	10.0									
Styrene	ND	10.0									
tert-Butylbenzene	ND	10.0									
Tetrachloroethene	ND	10.0									
Toluene	ND	10.0									
trans-1,2-Dichloroethene	ND	10.0									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110044
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: MBLK-29644	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	Run ID: 5975X_111006A						
Client ID: ZZZZZ	Batch ID: 29644	TestNo: SW8260B		Analysis Date: 10/6/2011	SeqNo: 782440						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

trans-1,3-Dichloropropene	ND	10.0									
Trichloroethene	ND	10.0									
Trichlorofluoromethane	ND	10.0									
Vinyl chloride	ND	10.0									
Surr: 1,2-Dichloroethane-d4	102.9	0	100	0	103	71.5	112	0	0		
Surr: 4-Bromofluorobenzene	88.79	0	100	0	88.8	75.7	122	0	0		
Surr: Dibromofluoromethane	118.7	0	100	0	119	64.3	124	0	0		
Surr: Toluene-d8	96.03	0	100	0	96	74.9	120	0	0		

Sample ID: MBLK-29644	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	Run ID: 5975X_111006A						
Client ID: ZZZZZ	Batch ID: 29644	TestNo: SW8260B		Analysis Date: 10/7/2011	SeqNo: 782806						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	ND	10.0									
1,1,1-Trichloroethane	ND	10.0									
1,1,2,2-Tetrachloroethane	ND	10.0									
1,1,2-Trichloroethane	ND	10.0									
1,1-Dichloroethane	ND	10.0									
1,1-Dichloroethene	ND	10.0									
1,1-Dichloropropene	ND	10.0									
1,2,3-Trichlorobenzene	ND	10.0									
1,2,3-Trichloropropane	ND	10.0									
1,2,4-Trichlorobenzene	ND	10.0									
1,2,4-Trimethylbenzene	ND	10.0									
1,2-Dibromo-3-chloropropane	ND	10.0									
1,2-Dibromoethane	ND	5.00									
1,2-Dichlorobenzene	ND	10.0									
1,2-Dichloroethane	ND	5.00									
1,2-Dichloropropane	ND	10.0									
1,3,5-Trimethylbenzene	ND	10.0									
1,3-Dichlorobenzene	ND	10.0									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110044
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: MBLK-29644	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	Run ID: 5975X_111006A						
Client ID: ZZZZZ	Batch ID: 29644	TestNo: SW8260B		Analysis Date: 10/7/2011	SeqNo: 782806						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	ND	10.0									
1,4-Dichlorobenzene	ND	10.0									
2,2-Dichloropropane	ND	10.0									
2-Butanone	ND	20.0									
2-Chlorotoluene	ND	10.0									
2-Hexanone	ND	20.0									
4-Chlorotoluene	ND	10.0									
4-Isopropyltoluene	ND	10.0									
4-Methyl-2-pentanone	ND	20.0									
Acetone	ND	50.0									
Benzene	ND	10.0									
Bromobenzene	ND	10.0									
Bromochloromethane	ND	10.0									
Bromodichloromethane	ND	10.0									
Bromoform	ND	10.0									
Bromomethane	ND	10.0									
Carbon disulfide	ND	10.0									
Carbon tetrachloride	ND	10.0									
Chlorobenzene	ND	10.0									
Chloroethane	ND	10.0									
Chloroform	ND	10.0									
Chloromethane	ND	10.0									
cis-1,2-Dichloroethene	ND	10.0									
cis-1,3-Dichloropropene	ND	10.0									
Dibromochloromethane	ND	10.0									
Dibromomethane	ND	10.0									
Dichlorodifluoromethane	ND	10.0									
Ethylbenzene	ND	10.0									
Hexachlorobutadiene	ND	10.0									
Isopropylbenzene	ND	10.0									
m,p-Xylene	ND	20.0									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110044
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: MBLK-29644	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	Run ID: 5975X_111006A						
Client ID: ZZZZZ	Batch ID: 29644	TestNo: SW8260B	Analysis Date: 10/7/2011	SeqNo: 782806							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	ND	10.0									
Methylene chloride	ND	50.0									
n-Butylbenzene	ND	10.0									
n-Propylbenzene	ND	10.0									
Naphthalene	1.36	10.0									J
o-Xylene	ND	10.0									
sec-Butylbenzene	ND	10.0									
Styrene	ND	10.0									
tert-Butylbenzene	ND	10.0									
Tetrachloroethene	ND	10.0									
Toluene	ND	10.0									
trans-1,2-Dichloroethene	ND	10.0									
trans-1,3-Dichloropropene	ND	10.0									
Trichloroethene	ND	10.0									
Trichlorofluoromethane	ND	10.0									
Vinyl chloride	ND	10.0									
Surr: 1,2-Dichloroethane-d4	95.76	0	100	0	95.8	71.5	112	0	0		
Surr: 4-Bromofluorobenzene	87.36	0	100	0	87.4	75.7	122	0	0		
Surr: Dibromofluoromethane	113.5	0	100	0	114	64.3	124	0	0		
Surr: Toluene-d8	95.63	0	100	0	95.6	74.9	120	0	0		

Sample ID: LCS-29644	SampType: LCS	TestCode: 8260_S	Units: µg/Kg	Prep Date:	Run ID: 5975X_111006A						
Client ID: ZZZZZ	Batch ID: 29644	TestNo: SW8260B		Analysis Date: 10/6/2011	SeqNo: 782439						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	65.98	10.0	60	0	110	65.4	133	0	0		
Benzene	65.59	10.0	60	0	109	78	123	0	0		
Chlorobenzene	65.09	10.0	60	0	108	79.5	125	0	0		
Toluene	56.4	10.0	60	0	94	77.5	132	0	0		
Trichloroethene	67.34	10.0	60	0	112	72.4	124	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110044
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: 1110044-02AMS	SampType: MS	TestCode: 8260_S	Units: µg/Kg-dry	Prep Date: 10/6/2011	Run ID: 5975X_111006A						
Client ID: SS-14-1	Batch ID: 29644	TestNo: SW8260B		Analysis Date: 10/6/2011	SeqNo: 782809						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	50.5	12.2	48.78	0	104	69.2	158	0	0		HT
Benzene	47.94	12.2	48.78	0	98.3	71.7	147	0	0		HT
Chlorobenzene	41.57	12.2	48.78	0	85.2	75	148	0	0		HT
Toluene	39.72	12.2	48.78	0	81.4	75.8	153	0	0		HT
Trichloroethene	41.67	12.2	48.78	0	85.4	77.1	138	0	0		HT

Sample ID: 1110044-02AMSD		SampType: MSD		TestCode: 8260_S		Units: µg/Kg		Prep Date: 10/6/2011		Run ID: 5975X_111006A			
Client ID: SS-14-1		Batch ID: 29644		TestNo: SW8260B				Analysis Date: 10/6/2011		SeqNo: 782810			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	38.25	10.0	40	0	95.6	69.2	158	41.41	7.93	20	HT
Benzene	28.23	10.0	40	0	70.6	71.7	147	39.31	32.8	20	S,R,HT
Chlorobenzene	17.7	10.0	40	0	44.2	75	148	34.09	63.3	20	S,R,HT
Toluene	17.87	10.0	40	0	44.7	75.8	153	32.57	58.3	20	S,R,HT
Trichloroethene	24.82	10.0	40	0	62	77.1	138	34.17	31.7	20	S,R,HT

Sample ID: CCV-29644	SampType: CCV	TestCode: 8260_S	Units: µg/Kg	Prep Date:				Run ID: 5975X_111006A			
Client ID: ZZZZZ	Batch ID: 29644	TestNo: SW8260B	Analysis Date: 10/6/2011				SeqNo: 782438				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	62.39	10.0	60	0	104	80	120	0	0		
1,2-Dichloropropane	57.44	10.0	60	0	95.7	80	120	0	0		
Chloroform	56.67	10.0	60	0	94.4	80	120	0	0		
Ethylbenzene	60.28	10.0	60	0	100	80	120	0	0		
Toluene	50.44	10.0	60	0	84.1	80	120	0	0		
Vinyl chloride	58.47	10.0	60	0	97.4	80	120	0	0		

Sample ID: CCV-29644	SampType: CCV	TestCode: 8260_S	Units: µg/Kg	Prep Date:	Run ID: 5975X_111006A						
Client ID: ZZZZZ	Batch ID: 29644	TestNo: SW8260B		Analysis Date: 10/7/2011	SeqNo: 782805						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110044
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: CCV-29644	SampType: CCV	TestCode: 8260_S	Units: µg/Kg	Prep Date:	Run ID: 5975X_111006A						
Client ID: ZZZZZ	Batch ID: 29644	TestNo: SW8260B		Analysis Date: 10/7/2011	SeqNo: 782805						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	58.52	10.0	60	0	97.5	80	120	0	0		
1,2-Dichloropropane	53.57	10.0	60	0	89.3	80	120	0	0		
Chloroform	50.68	10.0	60	0	84.5	80	120	0	0		
Ethylbenzene	55.69	10.0	60	0	92.8	80	120	0	0		
Toluene	48.84	10.0	60	0	81.4	80	120	0	0		
Vinyl chloride	51.83	10.0	60	0	86.4	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110044
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: MB-29637	SampType: MBLK	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 10/6/2011	Run ID: 5975Q_111007A						
Client ID: ZZZZZ	Batch ID: 29637	TestNo: 8270SIM	Analysis Date: 10/7/2011	SeqNo: 782861							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	6.67									
Acenaphthylene	ND	6.67									
Anthracene	ND	6.67									
Benz(a)anthracene	2	6.67									J
Benzo(a)pyrene	0.6667	6.67									J
Benzo(b)fluoranthene	1.333	6.67									J
Benzo(g,h,i)perylene	ND	6.67									
Benzo(k)fluoranthene	0.6667	6.67									J
Chrysene	2	6.67									J
Dibenz(a,h)anthracene	0.6667	6.67									J
Fluoranthene	1.333	6.67									J
Fluorene	ND	6.67									
Indeno(1,2,3-cd)pyrene	ND	6.67									
Naphthalene	2	6.67									J
Phenanthrene	0.6667	6.67									J
Pyrene	1.333	6.67									J
Surr: 2-Fluorobiphenyl	4309	0	6667	0	64.6	42.6	128	0	0		
Surr: Nitrobenzene-d5	5830	0	6667	0	87.4	21.7	155	0	0		
Surr: p-Terphenyl-d14	6182	0	6667	0	92.7	44.9	155	0	0		

Sample ID: LCS-29637	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 10/6/2011	Run ID: 5975Q_111007A						
Client ID: ZZZZZ	Batch ID: 29637	TestNo: 8270SIM		Analysis Date: 10/7/2011	SeqNo: 782863						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	236.7	6.67	333.3	0	71	39.6	107	0	0		
Benzo(g,h,i)perylene	284.7	6.67	333.3	0	85.4	49.7	135	0	0		
Chrysene	278.7	6.67	333.3	0	83.6	57.1	130	0	0		
Naphthalene	216	6.67	333.3	0	64.8	29.1	109	0	0		
Phenanthrene	277.3	6.67	333.3	0	83.2	48.4	115	0	0		
Pyrene	235.3	6.67	333.3	0	70.6	47.2	134	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110044
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: 1110044-01AMS	SampType: MS	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 10/6/2011	Run ID: 5975Q_111007A						
Client ID: SS-11-2	Batch ID: 29637	TestNo: 8270SIM		Analysis Date: 10/7/2011	SeqNo: 783016						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	324.4	9.43	471.5	3.772	68	33.7	111	0	0		
Benzo(g,h,i)perylene	405.5	9.43	471.5	33.95	78.8	15	128	0	0		
Chrysene	385.7	9.43	471.5	38.66	73.6	37.5	125	0	0		
Naphthalene	334.7	9.43	471.5	4.715	70	27.7	108	0	0		
Phenanthrene	374.4	9.43	471.5	54.69	67.8	20.2	139	0	0		
Pyrene	298	9.43	471.5	50.92	52.4	26.8	142	0	0		

Sample ID: 1110044-01AMSD		SampType: MSD		TestCode: PAHLL_S		Units: µg/Kg-dry		Prep Date: 10/6/2011		Run ID: 5975Q_111007A	
Client ID: SS-11-2		Batch ID: 29637		TestNo: 8270SIM				Analysis Date: 10/7/2011		SeqNo: 783017	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	335.7	9.43	471.5	3.772	70.4	33.7	111	324.4	3.43	20	
Benzo(g,h,i)perylene	375.3	9.43	471.5	33.95	72.4	15	128	405.5	7.73	20	
Chrysene	350.8	9.43	471.5	38.66	66.2	37.5	125	385.7	9.48	20	
Naphthalene	324.4	9.43	471.5	4.715	67.8	27.7	108	334.7	3.15	20	
Phenanthrene	401.7	9.43	471.5	54.69	73.6	20.2	139	374.4	7.05	20	
Pyrene	251.8	9.43	471.5	50.92	42.6	26.8	142	298	16.8	20	

Sample ID: CCV-29637		SampType: CCV		TestCode: PAHLL_S		Units: µg/Kg		Prep Date:		Run ID: 5975Q_111007A	
Client ID: ZZZZZ		Batch ID: 29637		TestNo: 8270SIM				Analysis Date: 10/7/2011		SeqNo: 782860	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	70.67	6.67	66.67	0	106	70	130	0	0		
Acenaphthylene	68.67	6.67	66.67	0	103	70	130	0	0		
Anthracene	71.33	6.67	66.67	0	107	70	130	0	0		
Benz(a)anthracene	68	6.67	66.67	0	102	70	130	0	0		
Benzo(a)pyrene	74	6.67	66.67	0	111	70	130	0	0		
Benzo(b)fluoranthene	72	6.67	66.67	0	108	70	130	0	0		
Benzo(g,h,i)perylene	72.67	6.67	66.67	0	109	70	130	0	0		
Benzo(k)fluoranthene	78.67	6.67	66.67	0	118	70	130	0	0		
Chrysene	79.33	6.67	66.67	0	119	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110044
Project: Port of Camas / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCV-29637	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5975Q_111007A						
Client ID: ZZZZZ	Batch ID: 29637	TestNo: 8270SIM		Analysis Date: 10/7/2011	SeqNo: 782860						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	77.33	6.67	66.67	0	116	70	130	0	0		
Fluoranthene	79.33	6.67	66.67	0	119	70	130	0	0		
Fluorene	76	6.67	66.67	0	114	70	130	0	0		
Indeno(1,2,3-cd)pyrene	79.33	6.67	66.67	0	119	70	130	0	0		
Naphthalene	71.33	6.67	66.67	0	107	70	130	0	0		
Phenanthrene	78	6.67	66.67	0	117	70	130	0	0		
Pyrene	64.67	6.67	66.67	0	97	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

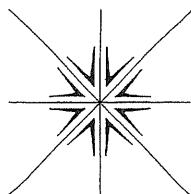
B - Analyte detected in the associated Method Blank

KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result great than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.

Page 3 of 3



11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Company WJFA

Address 7223 NE Hazel Dell Suite B

Phone 360-433-0249 Fax —

Project No. 0229.04.03 Project Name Port of Camels Wash

Project Site Location OR _____ WA X Other _____

Invoice To _____ P.O. No. _____

Collected By:

Signature _____

Printed Shutika Khan

Signature_____

Printed _____

☒ Normal 5-7 Business Days

☐ Rush _____

Specify

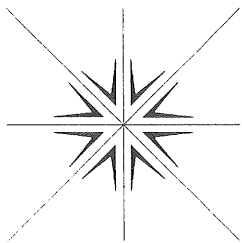
Rush Analyses Must Be Scheduled With The Lab In Advance

[illegible]

Copies: White-Original

Yellow-Project File

Pink-Customer Copy



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
(503) 607-1331
Fax (503) 607-1336

November 10, 2011

Alan Hughes
Maul, Foster & Alongi
400 East Mill Plain Blvd
Suite 400
Vancouver, WA 98660

TEL: (360) 694-2691

FAX: (360) 906-1958

RE: Port of C/W / 0229.04.03

Dear Alan Hughes:

Order No.: 1110243

Specialty Analytical received 21 samples on 10/28/2011 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,


Cindy Hillyard
Project Manager


Technical Review

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-01

Client Sample ID: TP-12-S-1.0
Collection Date: 10/27/2011 10:15:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: kh
Diesel	39.8	20.1		mg/Kg-dry	1	10/31/2011
Lube Oil	70.3	66.8		mg/Kg-dry	1	10/31/2011
Surr: o-Terphenyl	81.1	50-150		%REC	1	10/31/2011
TOTAL METALS BY ICP		E6010				Analyst: cmt
Arsenic	2.84	2.30		mg/Kg-dry	1	11/1/2011 4:10:05 PM
Barium	202	1.15		mg/Kg-dry	1	11/1/2011 4:10:05 PM
Cadmium	ND	0.115		mg/Kg-dry	1	11/1/2011 4:10:05 PM
Chromium	20.1	0.576		mg/Kg-dry	1	11/1/2011 4:10:05 PM
Lead	7.41	2.30		mg/Kg-dry	1	11/1/2011 4:10:05 PM
Selenium	ND	2.30		mg/Kg-dry	1	11/1/2011 4:10:05 PM
Silver	ND	2.30		mg/Kg-dry	1	11/1/2011 4:10:05 PM
MERCURY, TOTAL		SW7471				Analyst: eh
Mercury	0.0306	0.0167		mg/Kg-dry	1	10/31/2011
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
1,1,1,2-Tetrachloroethane	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
1,1,1-Trichloroethane	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
1,1,2,2-Tetrachloroethane	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
1,1,2-Trichloroethane	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
1,1-Dichloroethane	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
1,1-Dichloroethene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
1,1-Dichloropropene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
1,2,3-Trichlorobenzene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
1,2,3-Trichloropropane	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
1,2,4-Trichlorobenzene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
1,2,4-Trimethylbenzene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
1,2-Dibromo-3-chloropropane	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
1,2-Dibromoethane	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
1,2-Dichlorobenzene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
1,2-Dichloroethane	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
1,2-Dichloropropane	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
1,3,5-Trimethylbenzene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
1,3-Dichlorobenzene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
1,3-Dichloropropane	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
1,4-Dichlorobenzene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
2,2-Dichloropropane	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
2-Butanone	ND	38.0		ug/Kg-dry	1	11/8/2011 3:34:00 PM
2-Chlorotoluene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
2-Hexanone	ND	19.0		ug/Kg-dry	1	11/8/2011 3:34:00 PM
4-Chlorotoluene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-01

Client Sample ID: TP-12-S-1.0
Collection Date: 10/27/2011 10:15:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: rkg		
4-Isopropyltoluene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
4-Methyl-2-pentanone	ND	38.0		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Acetone	147	94.9		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Benzene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Bromobenzene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Bromochloromethane	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Bromodichloromethane	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Bromoform	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Bromomethane	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Carbon Disulfide	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Carbon tetrachloride	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Chlorobenzene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Chloroethane	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Chloroform	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Chloromethane	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
cis-1,2-Dichloroethene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
cis-1,3-Dichloropropene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Dibromochloromethane	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Dibromomethane	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Dichlorodifluoromethane	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Ethylbenzene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Hexachlorobutadiene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Isopropylbenzene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
m,p-Xylene	ND	19.0		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Methyl tert-butyl ether	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Methylene Chloride	ND	47.4		ug/Kg-dry	1	11/8/2011 3:34:00 PM
n-Butylbenzene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
n-Propylbenzene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Naphthalene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
o-Xylene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
sec-Butylbenzene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Styrene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
tert-Butylbenzene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Tetrachloroethene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Toluene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
trans-1,2-Dichloroethene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
trans-1,3-Dichloropropene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Trichloroethene	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Trichlorofluoromethane	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Vinyl Chloride	ND	9.49		ug/Kg-dry	1	11/8/2011 3:34:00 PM
Surr: 1,2-Dichloroethane-d4	111	71.5-112		%REC	1	11/8/2011 3:34:00 PM

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-01

Client Sample ID: TP-12-S-1.0
Collection Date: 10/27/2011 10:15:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
Surr: 4-Bromofluorobenzene	83.7	75.7-122		%REC	1	11/8/2011 3:34:00 PM
Surr: Dibromofluoromethane	104	64.3-124		%REC	1	11/8/2011 3:34:00 PM
Surr: Toluene-d8	113	74.9-120		%REC	1	11/8/2011 3:34:00 PM

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-02

Client Sample ID: TP-12-S-3.0
Collection Date: 10/27/2011 10:30:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-03

Client Sample ID: TP-12-S-5.0
Collection Date: 10/27/2011 10:40:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-04

Client Sample ID: TP-13-S-1.0
Collection Date: 10/27/2011 11:00:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX						
NWTPH-DX			Analyst: kh			
Diesel	291	24.5	A1	mg/Kg-dry	1	10/31/2011
Lube Oil	491	81.8	A2	mg/Kg-dry	1	10/31/2011
Surr: o-Terphenyl	80.6	50-150		%REC	1	10/31/2011
TOTAL METALS BY ICP						
E6010			Analyst: cmt			
Arsenic	ND	2.82		mg/Kg-dry	1	11/1/2011 5:00:23 PM
Barium	151	1.41		mg/Kg-dry	1	11/1/2011 5:00:23 PM
Cadmium	ND	0.141		mg/Kg-dry	1	11/1/2011 5:00:23 PM
Chromium	17.6	0.705		mg/Kg-dry	1	11/1/2011 5:00:23 PM
Lead	14.6	2.82		mg/Kg-dry	1	11/1/2011 5:00:23 PM
Selenium	ND	2.82		mg/Kg-dry	1	11/1/2011 5:00:23 PM
Silver	ND	2.82		mg/Kg-dry	1	11/1/2011 5:00:23 PM
MERCURY, TOTAL						
SW7471			Analyst: eh			
Mercury	0.0285	0.0155		mg/Kg-dry	1	10/31/2011
VOLATILES BY GC/MS						
SW8260B			Analyst: rkg			
1,1,1,2-Tetrachloroethane	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
1,1,1-Trichloroethane	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
1,1,2,2-Tetrachloroethane	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
1,1,2-Trichloroethane	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
1,1-Dichloroethane	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
1,1-Dichloroethene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
1,1-Dichloropropene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
1,2,3-Trichlorobenzene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
1,2,3-Trichloropropane	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
1,2,4-Trichlorobenzene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
1,2,4-Trimethylbenzene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
1,2-Dibromo-3-chloropropane	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
1,2-Dibromoethane	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
1,2-Dichlorobenzene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
1,2-Dichloroethane	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
1,2-Dichloropropane	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
1,3,5-Trimethylbenzene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
1,3-Dichlorobenzene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
1,3-Dichloropropane	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
1,4-Dichlorobenzene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
2,2-Dichloropropane	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
2-Butanone	ND	127		ug/Kg-dry	1	11/5/2011 2:26:00 PM
2-Chlorotoluene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
2-Hexanone	ND	63.7		ug/Kg-dry	1	11/5/2011 2:26:00 PM
4-Chlorotoluene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-04

Client Sample ID: TP-13-S-1.0
Collection Date: 10/27/2011 11:00:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: rkg		
4-Isopropyltoluene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
4-Methyl-2-pentanone	ND	127		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Acetone	403	319		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Benzene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Bromobenzene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Bromochloromethane	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Bromodichloromethane	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Bromoform	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Bromomethane	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Carbon Disulfide	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Carbon tetrachloride	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Chlorobenzene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Chloroethane	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Chloroform	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Chloromethane	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
cis-1,2-Dichloroethene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
cis-1,3-Dichloropropene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Dibromochloromethane	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Dibromomethane	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Dichlorodifluoromethane	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Ethylbenzene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Hexachlorobutadiene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Isopropylbenzene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
m,p-Xylene	ND	63.7		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Methyl tert-butyl ether	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Methylene Chloride	ND	159		ug/Kg-dry	1	11/5/2011 2:26:00 PM
n-Butylbenzene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
n-Propylbenzene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Naphthalene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
o-Xylene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
sec-Butylbenzene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Styrene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
tert-Butylbenzene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Tetrachloroethene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Toluene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
trans-1,2-Dichloroethene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
trans-1,3-Dichloropropene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Trichloroethene	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Trichlorofluoromethane	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Vinyl Chloride	ND	31.9		ug/Kg-dry	1	11/5/2011 2:26:00 PM
Surr: 1,2-Dichloroethane-d4	113	71.5-112	S	%REC	1	11/5/2011 2:26:00 PM

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-04

Client Sample ID: TP-13-S-1.0
Collection Date: 10/27/2011 11:00:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
Surr: 4-Bromofluorobenzene	90.1	75.7-122		%REC	1	11/5/2011 2:26:00 PM
Surr: Dibromofluoromethane	102	64.3-124		%REC	1	11/5/2011 2:26:00 PM
Surr: Toluene-d8	100	74.9-120		%REC	1	11/5/2011 2:26:00 PM

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-05

Client Sample ID: TP-13-S-3.0
Collection Date: 10/27/2011 11:15:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-06

Client Sample ID: TP-13-S-5.0
Collection Date: 10/27/2011 11:30:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-07

Client Sample ID: TP-14-S-1.0
Collection Date: 10/27/2011 11:40:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: kh
Diesel	ND	19.5		mg/Kg-dry	1	10/31/2011
Lube Oil	ND	64.9		mg/Kg-dry	1	10/31/2011
Surr: o-Terphenyl	89.3	50-150		%REC	1	10/31/2011
TOTAL METALS BY ICP		E6010				Analyst: cmt
Arsenic	ND	2.16		mg/Kg-dry	1	11/1/2011 5:05:24 PM
Barium	231	1.08		mg/Kg-dry	1	11/1/2011 5:05:24 PM
Cadmium	ND	0.108		mg/Kg-dry	1	11/1/2011 5:05:24 PM
Chromium	19.1	0.540		mg/Kg-dry	1	11/1/2011 5:05:24 PM
Lead	4.68	2.16		mg/Kg-dry	1	11/1/2011 5:05:24 PM
Selenium	ND	2.16		mg/Kg-dry	1	11/1/2011 5:05:24 PM
Silver	ND	2.16		mg/Kg-dry	1	11/1/2011 5:05:24 PM
MERCURY, TOTAL		SW7471				Analyst: eh
Mercury	0.0264	0.0144		mg/Kg-dry	1	10/31/2011
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
1,1,1,2-Tetrachloroethane	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
1,1,1-Trichloroethane	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
1,1,2,2-Tetrachloroethane	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
1,1,2-Trichloroethane	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
1,1-Dichloroethane	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
1,1-Dichloroethene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
1,1-Dichloropropene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
1,2,3-Trichlorobenzene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
1,2,3-Trichloropropane	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
1,2,4-Trichlorobenzene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
1,2,4-Trimethylbenzene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
1,2-Dibromo-3-chloropropane	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
1,2-Dibromoethane	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
1,2-Dichlorobenzene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
1,2-Dichloroethane	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
1,2-Dichloropropane	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
1,3,5-Trimethylbenzene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
1,3-Dichlorobenzene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
1,3-Dichloropropane	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
1,4-Dichlorobenzene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
2,2-Dichloropropane	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
2-Butanone	72.3	60.7		ug/Kg-dry	1	11/9/2011 7:00:00 PM
2-Chlorotoluene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
2-Hexanone	ND	30.3		ug/Kg-dry	1	11/9/2011 7:00:00 PM
4-Chlorotoluene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-07

Client Sample ID: TP-14-S-1.0
Collection Date: 10/27/2011 11:40:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
4-Isopropyltoluene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
4-Methyl-2-pentanone	ND	60.7		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Acetone	300	152		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Benzene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Bromobenzene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Bromochloromethane	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Bromodichloromethane	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Bromoform	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Bromomethane	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Carbon Disulfide	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Carbon tetrachloride	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Chlorobenzene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Chloroethane	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Chloroform	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Chloromethane	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
cis-1,2-Dichloroethene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
cis-1,3-Dichloropropene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Dibromochloromethane	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Dibromomethane	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Dichlorodifluoromethane	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Ethylbenzene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Hexachlorobutadiene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Isopropylbenzene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
m,p-Xylene	ND	30.3		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Methyl tert-butyl ether	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Methylene Chloride	ND	75.8		ug/Kg-dry	1	11/9/2011 7:00:00 PM
n-Butylbenzene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
n-Propylbenzene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Naphthalene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
o-Xylene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
sec-Butylbenzene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Styrene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
tert-Butylbenzene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Tetrachloroethene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Toluene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
trans-1,2-Dichloroethene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
trans-1,3-Dichloropropene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Trichloroethene	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Trichlorofluoromethane	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Vinyl Chloride	ND	15.2		ug/Kg-dry	1	11/9/2011 7:00:00 PM
Surr: 1,2-Dichloroethane-d4	105	71.5-112		%REC	1	11/9/2011 7:00:00 PM

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-07

Client Sample ID: TP-14-S-1.0
Collection Date: 10/27/2011 11:40:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
Surr: 4-Bromofluorobenzene	101	75.7-122		%REC	1	11/9/2011 7:00:00 PM
Surr: Dibromofluoromethane	104	64.3-124		%REC	1	11/9/2011 7:00:00 PM
Surr: Toluene-d8	109	74.9-120		%REC	1	11/9/2011 7:00:00 PM

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-08

Client Sample ID: TP-14-S-3.0
Collection Date: 10/27/2011 11:50:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-09

Client Sample ID: TP-14-S-5.0
Collection Date: 10/27/2011 12:05:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-10

Client Sample ID: TP-15-S-1.0
Collection Date: 10/27/2011 12:30:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX						
		NWTPH-DX				Analyst: kh
Diesel	ND	19.4		mg/Kg-dry	1	10/31/2011
Lube Oil	ND	64.8		mg/Kg-dry	1	10/31/2011
Surr: o-Terphenyl	87.6	50-150		%REC	1	10/31/2011
TOTAL METALS BY ICP						
		E6010				Analyst: cmt
Arsenic	ND	2.40		mg/Kg-dry	1	11/1/2011 5:10:25 PM
Barium	197	1.20		mg/Kg-dry	1	11/1/2011 5:10:25 PM
Cadmium	ND	0.120		mg/Kg-dry	1	11/1/2011 5:10:25 PM
Chromium	18.1	0.600		mg/Kg-dry	1	11/1/2011 5:10:25 PM
Lead	2.46	2.40		mg/Kg-dry	1	11/1/2011 5:10:25 PM
Selenium	ND	2.40		mg/Kg-dry	1	11/1/2011 5:10:25 PM
Silver	ND	2.40		mg/Kg-dry	1	11/1/2011 5:10:25 PM
MERCURY, TOTAL						
		SW7471				Analyst: eh
Mercury	0.0229	0.0151		mg/Kg-dry	1	10/31/2011
VOLATILES BY GC/MS						
		SW8260B				Analyst: rkg
1,1,1,2-Tetrachloroethane	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
1,1,1-Trichloroethane	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
1,1,2,2-Tetrachloroethane	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
1,1,2-Trichloroethane	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
1,1-Dichloroethane	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
1,1-Dichloroethene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
1,1-Dichloropropene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
1,2,3-Trichlorobenzene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
1,2,3-Trichloropropane	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
1,2,4-Trichlorobenzene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
1,2,4-Trimethylbenzene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
1,2-Dibromo-3-chloropropane	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
1,2-Dibromoethane	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
1,2-Dichlorobenzene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
1,2-Dichloroethane	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
1,2-Dichloropropane	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
1,3,5-Trimethylbenzene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
1,3-Dichlorobenzene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
1,3-Dichloropropane	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
1,4-Dichlorobenzene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
2,2-Dichloropropane	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
2-Butanone	ND	110		ug/Kg-dry	1	11/8/2011 9:58:00 PM
2-Chlorotoluene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
2-Hexanone	ND	55.2		ug/Kg-dry	1	11/8/2011 9:58:00 PM
4-Chlorotoluene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-10

Client Sample ID: TP-15-S-1.0
Collection Date: 10/27/2011 12:30:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
4-Isopropyltoluene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
4-Methyl-2-pentanone	ND	110		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Acetone	ND	276		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Benzene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Bromobenzene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Bromochloromethane	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Bromodichloromethane	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Bromoform	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Bromomethane	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Carbon Disulfide	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Carbon tetrachloride	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Chlorobenzene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Chloroethane	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Chloroform	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Chloromethane	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
cis-1,2-Dichloroethene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
cis-1,3-Dichloropropene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Dibromochloromethane	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Dibromomethane	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Dichlorodifluoromethane	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Ethylbenzene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Hexachlorobutadiene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Isopropylbenzene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
m,p-Xylene	ND	55.2		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Methyl tert-butyl ether	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Methylene Chloride	ND	138		ug/Kg-dry	1	11/8/2011 9:58:00 PM
n-Butylbenzene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
n-Propylbenzene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Naphthalene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
o-Xylene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
sec-Butylbenzene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Styrene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
tert-Butylbenzene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Tetrachloroethene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Toluene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
trans-1,2-Dichloroethene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
trans-1,3-Dichloropropene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Trichloroethene	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Trichlorofluoromethane	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Vinyl Chloride	ND	27.6		ug/Kg-dry	1	11/8/2011 9:58:00 PM
Surr: 1,2-Dichloroethane-d4	114	71.5-112	S	%REC	1	11/8/2011 9:58:00 PM

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-10

Client Sample ID: TP-15-S-1.0
Collection Date: 10/27/2011 12:30:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
Surr: 4-Bromofluorobenzene	87.5	75.7-122		%REC	1	11/8/2011 9:58:00 PM
Surr: Dibromofluoromethane	102	64.3-124		%REC	1	11/8/2011 9:58:00 PM
Surr: Toluene-d8	120	74.9-120	S	%REC	1	11/8/2011 9:58:00 PM

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-11

Client Sample ID: TP-15-S-3.0
Collection Date: 10/27/2011 12:40:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-12

Client Sample ID: TP-15-S-5.0
Collection Date: 10/27/2011 12:55:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-13

Client Sample ID: TP-16-S-1.5
Collection Date: 10/27/2011 1:30:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
		E6010				Analyst: cmt
Arsenic	ND	2.62		mg/Kg-dry	1	11/3/2011 5:46:41 PM
Barium	161	1.31		mg/Kg-dry	1	11/3/2011 5:46:41 PM
Cadmium	0.249	0.131		mg/Kg-dry	1	11/3/2011 5:46:41 PM
Chromium	20.6	0.655		mg/Kg-dry	1	11/3/2011 5:46:41 PM
Lead	259	2.62		mg/Kg-dry	1	11/3/2011 5:46:41 PM
Selenium	ND	2.62		mg/Kg-dry	1	11/3/2011 5:46:41 PM
Silver	ND	2.25		mg/Kg-dry	1	11/4/2011 1:12:26 PM
MERCURY, TOTAL						
		SW7471				Analyst: zau
Mercury	1.12	0.158		mg/Kg-dry	10	11/8/2011
LOW LEVEL PAH BY GC/MS						
		8270SIM				Analyst: bda
1-Methylnaphthalene	ND	7.80		µg/Kg-dry	1	11/10/2011 11:02:00 AM
2-Methylnaphthalene	9.36	7.80		µg/Kg-dry	1	11/10/2011 11:02:00 AM
Acenaphthene	ND	7.80		µg/Kg-dry	1	11/10/2011 11:02:00 AM
Acenaphthylene	12.5	7.80		µg/Kg-dry	1	11/10/2011 11:02:00 AM
Anthracene	17.9	7.80		µg/Kg-dry	1	11/10/2011 11:02:00 AM
Benz(a)anthracene	27.3	7.80		µg/Kg-dry	1	11/10/2011 11:02:00 AM
Benzo(a)pyrene	46.8	7.80		µg/Kg-dry	1	11/10/2011 11:02:00 AM
Benzo(b)fluoranthene	70.2	7.80		µg/Kg-dry	1	11/10/2011 11:02:00 AM
Benzo(g,h,i)perylene	43.7	7.80		µg/Kg-dry	1	11/10/2011 11:02:00 AM
Benzo(k)fluoranthene	16.4	7.80		µg/Kg-dry	1	11/10/2011 11:02:00 AM
Chrysene	23.4	7.80		µg/Kg-dry	1	11/10/2011 11:02:00 AM
Dibenz(a,h)anthracene	ND	7.80		µg/Kg-dry	1	11/10/2011 11:02:00 AM
Fluoranthene	42.1	7.80		µg/Kg-dry	1	11/10/2011 11:02:00 AM
Fluorene	ND	7.80		µg/Kg-dry	1	11/10/2011 11:02:00 AM
Indeno(1,2,3-cd)pyrene	27.3	7.80		µg/Kg-dry	1	11/10/2011 11:02:00 AM
Naphthalene	17.2	7.80		µg/Kg-dry	1	11/10/2011 11:02:00 AM
Phenanthrene	25.0	7.80		µg/Kg-dry	1	11/10/2011 11:02:00 AM
Pyrene	64.7	7.80		µg/Kg-dry	1	11/10/2011 11:02:00 AM
Surr: 2-Fluorobiphenyl	71.7	42.6-128		%REC	1	11/10/2011 11:02:00 AM
Surr: Nitrobenzene-d5	75.2	21.7-155		%REC	1	11/10/2011 11:02:00 AM
Surr: p-Terphenyl-d14	91.1	44.9-155		%REC	1	11/10/2011 11:02:00 AM
PCB'S IN SOIL						
		SW8082				Analyst: jrp
Aroclor 1016	ND	0.389		µg/Kg-dry	1	11/4/2011
Aroclor 1221	ND	0.389		µg/Kg-dry	1	11/4/2011
Aroclor 1232	ND	0.389		µg/Kg-dry	1	11/4/2011
Aroclor 1242	ND	0.389		µg/Kg-dry	1	11/4/2011
Aroclor 1248	ND	0.389		µg/Kg-dry	1	11/4/2011
Aroclor 1254	819	3.89		µg/Kg-dry	10	11/8/2011
Aroclor 1260	1050	3.89		µg/Kg-dry	10	11/8/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-13

Client Sample ID: TP-16-S-1.5
Collection Date: 10/27/2011 1:30:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082		Analyst: jrp		
Aroclor 1262	ND	0.389		µg/Kg-dry	1	11/4/2011
Aroclor 1268	ND	0.389		µg/Kg-dry	1	11/4/2011
Surr: Decachlorobiphenyl	108	56.5-130		%REC	1	11/4/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-14

Client Sample ID: TP-16-S-4.0
Collection Date: 10/27/2011 1:45:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
		E6010				Analyst: cmt
Arsenic	ND	2.16		mg/Kg-dry	1	11/1/2011 5:15:25 PM
Barium	283	1.08		mg/Kg-dry	1	11/1/2011 5:15:25 PM
Cadmium	0.119	0.108		mg/Kg-dry	1	11/1/2011 5:15:25 PM
Chromium	19.3	0.539		mg/Kg-dry	1	11/1/2011 5:15:25 PM
Lead	412	2.16		mg/Kg-dry	1	11/1/2011 5:15:25 PM
Selenium	ND	2.16		mg/Kg-dry	1	11/1/2011 5:15:25 PM
Silver	2.48	2.16		mg/Kg-dry	1	11/1/2011 5:15:25 PM
MERCURY, TOTAL						
		SW7471				Analyst: eh
Mercury	9.53	0.549		mg/Kg-dry	50	10/31/2011
LOW LEVEL PAH BY GC/MS						
		8270SIM				Analyst: bda
1-Methylnaphthalene	ND	8.34		µg/Kg-dry	1	11/10/2011 10:56:00 AM
2-Methylnaphthalene	9.17	8.34		µg/Kg-dry	1	11/10/2011 10:56:00 AM
Acenaphthene	ND	8.34		µg/Kg-dry	1	11/10/2011 10:56:00 AM
Acenaphthylene	12.5	8.34		µg/Kg-dry	1	11/10/2011 10:56:00 AM
Anthracene	19.2	8.34		µg/Kg-dry	1	11/10/2011 10:56:00 AM
Benz(a)anthracene	35.8	8.34		µg/Kg-dry	1	11/10/2011 10:56:00 AM
Benzo(a)pyrene	53.3	8.34		µg/Kg-dry	1	11/10/2011 12:14:00 PM
Benzo(b)fluoranthene	61.7	8.34		µg/Kg-dry	1	11/10/2011 12:14:00 PM
Benzo(g,h,i)perylene	65.8	8.34		µg/Kg-dry	1	11/10/2011 10:56:00 AM
Benzo(k)fluoranthene	22.5	8.34		µg/Kg-dry	1	11/10/2011 10:56:00 AM
Chrysene	35.8	8.34		µg/Kg-dry	1	11/10/2011 10:56:00 AM
Dibenz(a,h)anthracene	23.3	8.34		µg/Kg-dry	1	11/10/2011 10:56:00 AM
Fluoranthene	52.5	8.34		µg/Kg-dry	1	11/10/2011 10:56:00 AM
Fluorene	ND	8.34		µg/Kg-dry	1	11/10/2011 10:56:00 AM
Indeno(1,2,3-cd)pyrene	45.0	8.34		µg/Kg-dry	1	11/10/2011 10:56:00 AM
Naphthalene	18.3	8.34		µg/Kg-dry	1	11/10/2011 10:56:00 AM
Phenanthrene	30.8	8.34		µg/Kg-dry	1	11/10/2011 10:56:00 AM
Pyrene	74.2	8.34		µg/Kg-dry	1	11/10/2011 10:56:00 AM
Surr: 2-Fluorobiphenyl	62.8	42.6-128		%REC	1	11/10/2011 10:56:00 AM
Surr: Nitrobenzene-d5	62.0	21.7-155		%REC	1	11/10/2011 10:56:00 AM
Surr: p-Terphenyl-d14	72.7	44.9-155		%REC	1	11/10/2011 10:56:00 AM
PCB'S IN SOIL						
		SW8082				Analyst: jrp
Aroclor 1016	ND	0.416		µg/Kg-dry	1	10/31/2011
Aroclor 1221	ND	0.416		µg/Kg-dry	1	10/31/2011
Aroclor 1232	ND	0.416		µg/Kg-dry	1	10/31/2011
Aroclor 1242	ND	0.416		µg/Kg-dry	1	10/31/2011
Aroclor 1248	ND	0.416		µg/Kg-dry	1	10/31/2011
Aroclor 1254	ND	0.416		µg/Kg-dry	1	10/31/2011
Aroclor 1260	63.3	0.416		µg/Kg-dry	1	10/31/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-14

Client Sample ID: TP-16-S-4.0
Collection Date: 10/27/2011 1:45:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082		Analyst: jrp		
Aroclor 1262	ND	0.416		µg/Kg-dry	1	10/31/2011
Aroclor 1268	ND	0.416		µg/Kg-dry	1	10/31/2011
Surr: Decachlorobiphenyl	81.3	56.5-130		%REC	1	10/31/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-15

Client Sample ID: TP-16-S-10.0
Collection Date: 10/27/2011 2:25:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
		E6010				Analyst: cmt
Arsenic	ND	2.41		mg/Kg-dry	1	11/3/2011 5:51:41 PM
Barium	110	1.20		mg/Kg-dry	1	11/3/2011 5:51:41 PM
Cadmium	ND	0.120		mg/Kg-dry	1	11/3/2011 5:51:41 PM
Chromium	16.2	0.602		mg/Kg-dry	1	11/3/2011 5:51:41 PM
Lead	ND	2.41		mg/Kg-dry	1	11/3/2011 5:51:41 PM
Selenium	ND	2.41		mg/Kg-dry	1	11/3/2011 5:51:41 PM
Silver	ND	2.41		mg/Kg-dry	1	11/4/2011 1:17:24 PM
MERCURY, TOTAL						
		SW7471				Analyst: zau
Mercury	0.0201	0.0181		mg/Kg-dry	1	11/3/2011
LOW LEVEL PAH BY GC/MS						
		8270SIM				Analyst: bda
1-Methylnaphthalene	ND	8.67		µg/Kg-dry	1	11/10/2011 10:09:00 AM
2-Methylnaphthalene	9.54	8.67		µg/Kg-dry	1	11/10/2011 10:09:00 AM
Acenaphthene	ND	8.67		µg/Kg-dry	1	11/10/2011 10:09:00 AM
Acenaphthylene	ND	8.67		µg/Kg-dry	1	11/10/2011 10:09:00 AM
Anthracene	ND	8.67		µg/Kg-dry	1	11/10/2011 10:09:00 AM
Benz(a)anthracene	ND	8.67		µg/Kg-dry	1	11/10/2011 10:09:00 AM
Benzo(a)pyrene	12.1	8.67		µg/Kg-dry	1	11/10/2011 10:09:00 AM
Benzo(b)fluoranthene	17.3	8.67		µg/Kg-dry	1	11/10/2011 10:09:00 AM
Benzo(g,h,i)perylene	13.0	8.67		µg/Kg-dry	1	11/10/2011 10:09:00 AM
Benzo(k)fluoranthene	ND	8.67		µg/Kg-dry	1	11/10/2011 10:09:00 AM
Chrysene	ND	8.67		µg/Kg-dry	1	11/10/2011 10:09:00 AM
Dibenz(a,h)anthracene	ND	8.67		µg/Kg-dry	1	11/10/2011 10:09:00 AM
Fluoranthene	ND	8.67		µg/Kg-dry	1	11/10/2011 10:09:00 AM
Fluorene	ND	8.67		µg/Kg-dry	1	11/10/2011 10:09:00 AM
Indeno(1,2,3-cd)pyrene	ND	8.67		µg/Kg-dry	1	11/10/2011 10:09:00 AM
Naphthalene	ND	8.67		µg/Kg-dry	1	11/10/2011 10:09:00 AM
Phenanthrene	ND	8.67		µg/Kg-dry	1	11/10/2011 10:09:00 AM
Pyrene	13.0	8.67		µg/Kg-dry	1	11/10/2011 10:09:00 AM
Surr: 2-Fluorobiphenyl	49.5	42.6-128		%REC	1	11/10/2011 10:09:00 AM
Surr: Nitrobenzene-d5	55.1	21.7-155		%REC	1	11/10/2011 10:09:00 AM
Surr: p-Terphenyl-d14	88.3	44.9-155		%REC	1	11/10/2011 10:09:00 AM
PCB'S IN SOIL						
		SW8082				Analyst: jrj
Aroclor 1016	ND	0.433		µg/Kg-dry	1	11/4/2011
Aroclor 1221	ND	0.433		µg/Kg-dry	1	11/4/2011
Aroclor 1232	ND	0.433		µg/Kg-dry	1	11/4/2011
Aroclor 1242	ND	0.433		µg/Kg-dry	1	11/4/2011
Aroclor 1248	ND	0.433		µg/Kg-dry	1	11/4/2011
Aroclor 1254	ND	0.433		µg/Kg-dry	1	11/4/2011
Aroclor 1260	ND	0.433		µg/Kg-dry	1	11/4/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-15

Client Sample ID: TP-16-S-10.0
Collection Date: 10/27/2011 2:25:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082		Analyst: jrp		
Aroclor 1262	ND	0.433		µg/Kg-dry	1	11/4/2011
Aroclor 1268	ND	0.433		µg/Kg-dry	1	11/4/2011
Surr: Decachlorobiphenyl	78.5	56.5-130		%REC	1	11/4/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-16

Client Sample ID: TP-17-S-1.5
Collection Date: 10/27/2011 2:35:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
		E6010				Analyst: cmt
Arsenic	2.80	2.08		mg/Kg-dry	1	11/9/2011 11:23:33 AM
Barium	195	1.04		mg/Kg-dry	1	11/9/2011 11:23:33 AM
Cadmium	0.270	0.104		mg/Kg-dry	1	11/9/2011 11:23:33 AM
Chromium	29.8	0.519		mg/Kg-dry	1	11/9/2011 11:23:33 AM
Lead	248	2.08		mg/Kg-dry	1	11/9/2011 11:23:33 AM
Selenium	ND	2.08		mg/Kg-dry	1	11/9/2011 11:23:33 AM
Silver	ND	2.08		mg/Kg-dry	1	11/9/2011 11:23:33 AM
MERCURY, TOTAL						
		SW7471				Analyst: zau
Mercury	0.842	0.0185		mg/Kg-dry	1	11/8/2011
LOW LEVEL PAH BY GC/MS						
		8270SIM				Analyst: bda
1-Methylnaphthalene	ND	15.8	Q	µg/Kg-dry	2	11/9/2011 2:49:00 PM
2-Methylnaphthalene	22.1	15.8		µg/Kg-dry	2	11/9/2011 2:49:00 PM
Acenaphthene	23.7	15.8		µg/Kg-dry	2	11/9/2011 2:49:00 PM
Acenaphthylene	22.1	15.8		µg/Kg-dry	2	11/9/2011 2:49:00 PM
Anthracene	39.4	15.8		µg/Kg-dry	2	11/9/2011 2:49:00 PM
Benz(a)anthracene	53.6	15.8		µg/Kg-dry	2	11/9/2011 2:49:00 PM
Benzo(a)pyrene	50.5	15.8		µg/Kg-dry	2	11/9/2011 2:49:00 PM
Benzo(b)fluoranthene	86.8	15.8		µg/Kg-dry	2	11/9/2011 2:49:00 PM
Benzo(g,h,i)perylene	52.1	15.8		µg/Kg-dry	2	11/9/2011 2:49:00 PM
Benzo(k)fluoranthene	28.4	15.8		µg/Kg-dry	2	11/9/2011 2:49:00 PM
Chrysene	55.2	15.8		µg/Kg-dry	2	11/9/2011 2:49:00 PM
Dibenz(a,h)anthracene	22.1	15.8		µg/Kg-dry	2	11/9/2011 2:49:00 PM
Fluoranthene	155	15.8		µg/Kg-dry	2	11/9/2011 2:49:00 PM
Fluorene	ND	15.8	Q	µg/Kg-dry	2	11/9/2011 2:49:00 PM
Indeno(1,2,3-cd)pyrene	33.1	15.8		µg/Kg-dry	2	11/9/2011 2:49:00 PM
Naphthalene	26.8	15.8		µg/Kg-dry	2	11/9/2011 2:49:00 PM
Phenanthrene	55.2	15.8		µg/Kg-dry	2	11/9/2011 2:49:00 PM
Pyrene	216	15.8		µg/Kg-dry	2	11/9/2011 2:49:00 PM
Surr: 2-Fluorobiphenyl	67.8	42.6-128		%REC	2	11/9/2011 2:49:00 PM
Surr: Nitrobenzene-d5	63.1	21.7-155		%REC	2	11/9/2011 2:49:00 PM
Surr: p-Terphenyl-d14	84.3	44.9-155		%REC	2	11/9/2011 2:49:00 PM
PCB'S IN SOIL						
		SW8082				Analyst: jrj
Aroclor 1016	ND	0.394		µg/Kg-dry	1	11/7/2011
Aroclor 1221	ND	0.394		µg/Kg-dry	1	11/7/2011
Aroclor 1232	ND	0.394		µg/Kg-dry	1	11/7/2011
Aroclor 1242	ND	0.394		µg/Kg-dry	1	11/7/2011
Aroclor 1248	ND	0.394		µg/Kg-dry	1	11/7/2011
Aroclor 1254	142	0.394		µg/Kg-dry	1	11/7/2011
Aroclor 1260	210	0.394		µg/Kg-dry	1	11/7/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-16

Client Sample ID: TP-17-S-1.5
Collection Date: 10/27/2011 2:35:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082		Analyst: jrp		
Aroclor 1262	ND	0.394		µg/Kg-dry	1	11/7/2011
Aroclor 1268	ND	0.394		µg/Kg-dry	1	11/7/2011
Surr: Decachlorobiphenyl	62.9	56.5-130		%REC	1	11/7/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-17

Client Sample ID: TP-17-S-4.0
Collection Date: 10/27/2011 3:05:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
		E6010				Analyst: cmt
Arsenic	3.53	2.30		mg/Kg-dry	1	11/1/2011 5:20:23 PM
Barium	280	1.15		mg/Kg-dry	1	11/1/2011 5:20:23 PM
Cadmium	0.298	0.115		mg/Kg-dry	1	11/1/2011 5:20:23 PM
Chromium	30.9	0.574		mg/Kg-dry	1	11/1/2011 5:20:23 PM
Lead	438	2.30		mg/Kg-dry	1	11/1/2011 5:20:23 PM
Selenium	ND	2.30		mg/Kg-dry	1	11/1/2011 5:20:23 PM
Silver	2.33	2.30		mg/Kg-dry	1	11/1/2011 5:20:23 PM
MERCURY, TOTAL						
		SW7471				Analyst: eh
Mercury	0.940	0.0565		mg/Kg-dry	5	10/31/2011
LOW LEVEL PAH BY GC/MS						
		8270SIM				Analyst: bda
1-Methylnaphthalene	23.1	8.57		µg/Kg-dry	1	11/4/2011 6:01:00 PM
2-Methylnaphthalene	ND	8.57		µg/Kg-dry	1	11/4/2011 6:01:00 PM
Acenaphthene	94.3	8.57		µg/Kg-dry	1	11/4/2011 6:01:00 PM
Acenaphthylene	27.4	8.57		µg/Kg-dry	1	11/4/2011 6:01:00 PM
Anthracene	51.4	8.57		µg/Kg-dry	1	11/4/2011 6:01:00 PM
Benz(a)anthracene	93.4	8.57		µg/Kg-dry	1	11/4/2011 6:01:00 PM
Benzo(a)pyrene	60.8	8.57		µg/Kg-dry	1	11/4/2011 6:01:00 PM
Benzo(b)fluoranthene	78.0	8.57		µg/Kg-dry	1	11/4/2011 6:01:00 PM
Benzo(g,h,i)perylene	ND	8.57		µg/Kg-dry	1	11/4/2011 6:01:00 PM
Benzo(k)fluoranthene	77.1	8.57		µg/Kg-dry	1	11/4/2011 6:01:00 PM
Chrysene	133	8.57		µg/Kg-dry	1	11/4/2011 6:01:00 PM
Dibenz(a,h)anthracene	ND	8.57		µg/Kg-dry	1	11/4/2011 6:01:00 PM
Fluoranthene	214	8.57		µg/Kg-dry	1	11/4/2011 6:01:00 PM
Fluorene	24.9	8.57		µg/Kg-dry	1	11/4/2011 6:01:00 PM
Indeno(1,2,3-cd)pyrene	ND	8.57		µg/Kg-dry	1	11/4/2011 6:01:00 PM
Naphthalene	34.3	8.57		µg/Kg-dry	1	11/4/2011 6:01:00 PM
Phenanthrene	85.7	8.57		µg/Kg-dry	1	11/4/2011 6:01:00 PM
Pyrene	171	8.57		µg/Kg-dry	1	11/4/2011 6:01:00 PM
Surr: 2-Fluorobiphenyl	51.7	42.6-128		%REC	1	11/4/2011 6:01:00 PM
Surr: Nitrobenzene-d5	43.1	21.7-155		%REC	1	11/4/2011 6:01:00 PM
Surr: p-Terphenyl-d14	55.8	44.9-155		%REC	1	11/4/2011 6:01:00 PM
PCB'S IN SOIL						
		SW8082				Analyst: jrj
Aroclor 1016	ND	0.428		µg/Kg-dry	1	10/31/2011
Aroclor 1221	ND	0.428		µg/Kg-dry	1	10/31/2011
Aroclor 1232	ND	0.428		µg/Kg-dry	1	10/31/2011
Aroclor 1242	ND	0.428		µg/Kg-dry	1	10/31/2011
Aroclor 1248	ND	0.428		µg/Kg-dry	1	10/31/2011
Aroclor 1254	ND	0.428		µg/Kg-dry	1	10/31/2011
Aroclor 1260	763	4.28		µg/Kg-dry	10	11/1/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-17

Client Sample ID: TP-17-S-4.0
Collection Date: 10/27/2011 3:05:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082		Analyst: jrp		
Aroclor 1262	ND	0.428		µg/Kg-dry	1	10/31/2011
Aroclor 1268	ND	0.428		µg/Kg-dry	1	10/31/2011
Surr: Decachlorobiphenyl	92.4	56.5-130		%REC	1	10/31/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-18

Client Sample ID: TP-17-S-10.0
Collection Date: 10/27/2011 3:23:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
		E6010				Analyst: cmt
Arsenic	3.37	2.36		mg/Kg-dry	1	11/3/2011 5:56:43 PM
Barium	105	1.18		mg/Kg-dry	1	11/3/2011 5:56:43 PM
Cadmium	ND	0.118		mg/Kg-dry	1	11/3/2011 5:56:43 PM
Chromium	14.5	0.589		mg/Kg-dry	1	11/3/2011 5:56:43 PM
Lead	ND	2.36		mg/Kg-dry	1	11/3/2011 5:56:43 PM
Selenium	ND	2.36		mg/Kg-dry	1	11/3/2011 5:56:43 PM
Silver	ND	2.36		mg/Kg-dry	1	11/4/2011 1:22:23 PM
MERCURY, TOTAL						
		SW7471				Analyst: zau
Mercury	ND	0.0192		mg/Kg-dry	1	11/8/2011
LOW LEVEL PAH BY GC/MS						
		8270SIM				Analyst: bda
1-Methylnaphthalene	ND	8.17		µg/Kg-dry	1	11/10/2011 9:16:00 AM
2-Methylnaphthalene	ND	8.17		µg/Kg-dry	1	11/10/2011 9:16:00 AM
Acenaphthene	ND	8.17		µg/Kg-dry	1	11/10/2011 9:16:00 AM
Acenaphthylene	ND	8.17		µg/Kg-dry	1	11/10/2011 9:16:00 AM
Anthracene	ND	8.17		µg/Kg-dry	1	11/10/2011 9:16:00 AM
Benz(a)anthracene	ND	8.17		µg/Kg-dry	1	11/10/2011 9:16:00 AM
Benzo(a)pyrene	ND	8.17		µg/Kg-dry	1	11/10/2011 9:16:00 AM
Benzo(b)fluoranthene	ND	8.17		µg/Kg-dry	1	11/10/2011 9:16:00 AM
Benzo(g,h,i)perylene	ND	8.17		µg/Kg-dry	1	11/10/2011 9:16:00 AM
Benzo(k)fluoranthene	ND	8.17		µg/Kg-dry	1	11/10/2011 9:16:00 AM
Chrysene	ND	8.17		µg/Kg-dry	1	11/10/2011 9:16:00 AM
Dibenz(a,h)anthracene	ND	8.17		µg/Kg-dry	1	11/10/2011 9:16:00 AM
Fluoranthene	ND	8.17		µg/Kg-dry	1	11/10/2011 9:16:00 AM
Fluorene	ND	8.17		µg/Kg-dry	1	11/10/2011 9:16:00 AM
Indeno(1,2,3-cd)pyrene	ND	8.17		µg/Kg-dry	1	11/10/2011 9:16:00 AM
Naphthalene	ND	8.17		µg/Kg-dry	1	11/10/2011 9:16:00 AM
Phenanthrene	ND	8.17		µg/Kg-dry	1	11/10/2011 9:16:00 AM
Pyrene	ND	8.17		µg/Kg-dry	1	11/10/2011 9:16:00 AM
Surr: 2-Fluorobiphenyl	42.0	42.6-128	S	%REC	1	11/10/2011 9:16:00 AM
Surr: Nitrobenzene-d5	42.8	21.7-155		%REC	1	11/10/2011 9:16:00 AM
Surr: p-Terphenyl-d14	67.9	44.9-155		%REC	1	11/10/2011 9:16:00 AM
PCB'S IN SOIL						
		SW8082				Analyst: jrj
Aroclor 1016	ND	0.408		µg/Kg-dry	1	11/4/2011
Aroclor 1221	ND	0.408		µg/Kg-dry	1	11/4/2011
Aroclor 1232	ND	0.408		µg/Kg-dry	1	11/4/2011
Aroclor 1242	ND	0.408		µg/Kg-dry	1	11/4/2011
Aroclor 1248	ND	0.408		µg/Kg-dry	1	11/4/2011
Aroclor 1254	ND	0.408		µg/Kg-dry	1	11/4/2011
Aroclor 1260	ND	0.408		µg/Kg-dry	1	11/4/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-18

Client Sample ID: TP-17-S-10.0
Collection Date: 10/27/2011 3:23:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082		Analyst: jrp		
Aroclor 1262	ND	0.408		µg/Kg-dry	1	11/4/2011
Aroclor 1268	ND	0.408		µg/Kg-dry	1	11/4/2011
Surr: Decachlorobiphenyl	132	56.5-130	S	%REC	1	11/4/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-19

Client Sample ID: TP-18-S-1.5
Collection Date: 10/27/2011 3:25:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-20

Client Sample ID: TP-18-S-4.0
Collection Date: 10/27/2011 3:55:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
		E6010				Analyst: cmt
Arsenic	4.28	2.58		mg/Kg-dry	1	11/1/2011 5:25:22 PM
Barium	205	1.29		mg/Kg-dry	1	11/1/2011 5:25:22 PM
Cadmium	ND	0.129		mg/Kg-dry	1	11/1/2011 5:25:22 PM
Chromium	24.1	0.646		mg/Kg-dry	1	11/1/2011 5:25:22 PM
Lead	66.2	2.58		mg/Kg-dry	1	11/1/2011 5:25:22 PM
Selenium	ND	2.58		mg/Kg-dry	1	11/1/2011 5:25:22 PM
Silver	ND	2.58		mg/Kg-dry	1	11/1/2011 5:25:22 PM
MERCURY, TOTAL						
		SW7471				Analyst: eh
Mercury	0.885	0.0765		mg/Kg-dry	5	10/31/2011
LOW LEVEL PAH BY GC/MS						
		8270SIM				Analyst: bda
1-Methylnaphthalene	ND	8.97		µg/Kg-dry	1	11/9/2011 6:08:00 PM
2-Methylnaphthalene	ND	8.97		µg/Kg-dry	1	11/9/2011 6:08:00 PM
Acenaphthene	13.4	8.97		µg/Kg-dry	1	11/9/2011 6:08:00 PM
Acenaphthylene	ND	8.97		µg/Kg-dry	1	11/9/2011 6:08:00 PM
Anthracene	13.4	8.97		µg/Kg-dry	1	11/9/2011 6:08:00 PM
Benz(a)anthracene	36.7	8.97		µg/Kg-dry	1	11/9/2011 6:08:00 PM
Benzo(a)pyrene	32.3	8.97		µg/Kg-dry	1	11/9/2011 6:08:00 PM
Benzo(b)fluoranthene	48.4	8.97		µg/Kg-dry	1	11/9/2011 6:08:00 PM
Benzo(g,h,i)perylene	27.8	8.97		µg/Kg-dry	1	11/9/2011 6:08:00 PM
Benzo(k)fluoranthene	15.2	8.97		µg/Kg-dry	1	11/9/2011 6:08:00 PM
Chrysene	30.5	8.97		µg/Kg-dry	1	11/9/2011 6:08:00 PM
Dibenz(a,h)anthracene	ND	8.97		µg/Kg-dry	1	11/9/2011 6:08:00 PM
Fluoranthene	92.3	8.97		µg/Kg-dry	1	11/9/2011 6:08:00 PM
Fluorene	ND	8.97		µg/Kg-dry	1	11/9/2011 6:08:00 PM
Indeno(1,2,3-cd)pyrene	19.7	8.97		µg/Kg-dry	1	11/9/2011 6:08:00 PM
Naphthalene	ND	8.97		µg/Kg-dry	1	11/9/2011 6:08:00 PM
Phenanthrene	34.1	8.97		µg/Kg-dry	1	11/9/2011 6:08:00 PM
Pyrene	89.6	8.97		µg/Kg-dry	1	11/9/2011 6:08:00 PM
Surr: 2-Fluorobiphenyl	38.1	42.6-128	S,MI	%REC	1	11/9/2011 6:08:00 PM
Surr: Nitrobenzene-d5	44.7	21.7-155		%REC	1	11/9/2011 6:08:00 PM
Surr: p-Terphenyl-d14	46.3	44.9-155		%REC	1	11/9/2011 6:08:00 PM
PCB'S IN SOIL						
		SW8082				Analyst: jrp
Aroclor 1016	ND	0.448		µg/Kg-dry	1	10/31/2011
Aroclor 1221	ND	0.448		µg/Kg-dry	1	10/31/2011
Aroclor 1232	ND	0.448		µg/Kg-dry	1	10/31/2011
Aroclor 1242	ND	0.448		µg/Kg-dry	1	10/31/2011
Aroclor 1248	ND	0.448		µg/Kg-dry	1	10/31/2011
Aroclor 1254	ND	0.448		µg/Kg-dry	1	10/31/2011
Aroclor 1260	71.7	0.448		µg/Kg-dry	1	10/31/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-20

Client Sample ID: TP-18-S-4.0
Collection Date: 10/27/2011 3:55:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082		Analyst: jrp		
Aroclor 1262	ND	0.448		µg/Kg-dry	1	10/31/2011
Aroclor 1268	ND	0.448		µg/Kg-dry	1	10/31/2011
Surr: Decachlorobiphenyl	118	56.5-130		%REC	1	10/31/2011

Specialty Analytical

Date: 10-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110243
Project: Port of C/W / 0229.04.03
Lab ID: 1110243-21

Client Sample ID: TP-18-S-10.0
Collection Date: 10/27/2011 4:05:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT**TestCode: 6010_S**

Sample ID: MBLK-29857	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 10/31/2011	Run ID: TJA IRIS_111101C						
Client ID: ZZZZZ	Batch ID: 29857	TestNo: E6010		Analysis Date: 11/1/2011	SeqNo: 790174						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	2.00									
Barium	ND	1.00									
Cadmium	ND	0.100									
Chromium	ND	0.500									
Lead	ND	2.00									
Selenium	ND	2.00									
Silver	ND	2.00									

Sample ID: MBLK-29879	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/2/2011	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/3/2011	SeqNo: 790852						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	2.00									
Barium	ND	1.00									
Cadmium	ND	0.100									
Chromium	ND	0.500									
Lead	ND	2.00									
Selenium	ND	2.00									

Sample ID: MBLK-29879	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/2/2011	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/4/2011	SeqNo: 791090						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	ND	2.00									

Sample ID: MBLK-29919	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/8/2011	Run ID: TJA IRIS_111109A						
Client ID: ZZZZZ	Batch ID: 29919	TestNo: E6010		Analysis Date: 11/9/2011	SeqNo: 792120						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: MBLK-29919	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/8/2011	Run ID: TJA IRIS_111109A						
Client ID: ZZZZZ	Batch ID: 29919	TestNo: E6010		Analysis Date: 11/9/2011	SeqNo: 792120						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	2.00									
Barium	ND	1.00									
Cadmium	ND	0.100									
Chromium	ND	0.500									
Lead	ND	2.00									
Selenium	ND	2.00									
Silver	ND	2.00									

Sample ID: LCS-29857	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 10/31/2011	Run ID: TJA IRIS_111101C						
Client ID: ZZZZZ	Batch ID: 29857	TestNo: E6010		Analysis Date: 11/1/2011	SeqNo: 790175						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	96.12	2.00	100	0	96.1	85.1	107	0	0		
Barium	50.21	1.00	50	0	100	85.7	110	0	0		
Cadmium	4.92	0.100	5	0	98.4	87.2	109	0	0		
Chromium	25.55	0.500	25	0	102	84	113	0	0		
Lead	99.65	2.00	100	0	99.6	84.9	109	0	0		
Selenium	96.42	2.00	100	0	96.4	88.7	111	0	0		
Silver	43.37	2.00	50	0	86.7	79.3	109	0	0		

Sample ID: LCS-29879	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/2/2011	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/3/2011	SeqNo: 790854						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	96.6	2.00	100	0	96.6	85.1	107	0	0		
Barium	50.18	1.00	50	0	100	85.7	110	0	0		
Cadmium	4.92	0.100	5	0	98.4	87.2	109	0	0		
Chromium	25.46	0.500	25	0	102	84	113	0	0		
Lead	99.77	2.00	100	0	99.8	84.9	109	0	0		
Selenium	96.2	2.00	100	0	96.2	88.7	111	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: LCS-29879	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/2/2011	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/4/2011	SeqNo: 791091						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Silver	49.28	2.00	50	0	98.6	79.3	109	0	0	
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Sample ID: LCS-29919	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/8/2011	Run ID: TJA IRIS_111109A						
Client ID: ZZZZZ	Batch ID: 29919	TestNo: E6010		Analysis Date: 11/9/2011	SeqNo: 792121						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	104.8	2.00	100	0	105	85.1	107	0	0	
Barium	52.47	1.00	50	0	105	85.7	110	0	0	
Cadmium	5.19	0.100	5	0	104	87.2	109	0	0	
Chromium	27.12	0.500	25	0	108	84	113	0	0	
Lead	106.7	2.00	100	0	107	84.9	109	0	0	
Selenium	102.3	2.00	100	0	102	88.7	111	0	0	
Silver	44.96	2.00	50	0	89.9	79.3	109	0	0	

Sample ID: 1110243-01AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 10/31/2011	Run ID: TJA IRIS_111101C						
Client ID: TP-12-S-1.0	Batch ID: 29857	TestNo: E6010		Analysis Date: 11/1/2011	SeqNo: 790189						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	101.1	2.30	115.2	2.835	85.3	86.1	109	0	0		S,RP
Barium	246.5	1.15	57.62	202	77.2	75	125	0	0		
Cadmium	4.99	0.115	5.762	0	86.6	86.4	113	0	0		
Chromium	44.33	0.576	28.81	20.05	84.2	75	121	0	0		
Lead	104.7	2.30	115.2	7.411	84.5	84.9	109	0	0		S,RP
Selenium	94.23	2.30	115.2	0	81.8	77.7	116	0	0		
Silver	52.96	2.30	57.62	1.867	88.7	75	123	0	0		

Sample ID: 1111006-02AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/2/2011	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/3/2011	SeqNo: 790859						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	86.83	1.85	92.59	0.9818	92.7	86.1	109	0	0	
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Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 1111006-02AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/2/2011	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/3/2011	SeqNo: 790859						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Barium	46.45	0.926	46.3	2.1	95.8	75	125	0	0		
Cadmium	4.333	0.0926	4.63	0	93.6	86.4	113	0	0		
Chromium	33.92	0.463	23.15	5.636	122	75	121	0	0		S,RP
Lead	86.74	1.85	92.59	0	93.7	84.9	109	0	0		
Selenium	85.05	1.85	92.59	1.027	90.7	77.7	116	0	0		

Sample ID: 1111006-02AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/2/2011	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/4/2011	SeqNo: 791095						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Silver	43.02	1.85	46.3	0	92.9	75	123	0	0		
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Sample ID: 1110243-16AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 11/8/2011	Run ID: TJA IRIS_111109A						
Client ID: TP-17-S-1.5	Batch ID: 29919	TestNo: E6010		Analysis Date: 11/9/2011	SeqNo: 792124						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	103.5	2.19	109.6	2.803	91.9	86.1	109	0	0		
Barium	242.3	1.10	54.79	195.4	85.6	75	125	0	0		
Cadmium	5.577	0.110	5.479	0.2699	96.9	86.4	113	0	0		
Chromium	54.35	0.548	27.39	29.8	89.6	75	121	0	0		
Lead	381.4	2.19	109.6	247.6	122	84.9	109	0	0		S
Selenium	90.61	2.19	109.6	0	82.7	77.7	116	0	0		
Silver	54.05	2.19	54.79	1.786	95.4	75	123	0	0		

Sample ID: 1110243-01AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 10/31/2011	Run ID: TJA IRIS_111101C						
Client ID: TP-12-S-1.0	Batch ID: 29857	TestNo: E6010		Analysis Date: 11/1/2011	SeqNo: 790191						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	94.23	2.30	115.2	2.835	79.3	86.1	109	101.1	7.04	20	S,RP
Barium	233.5	1.15	57.62	202	54.6	75	125	246.5	5.43	20	S,RP
Cadmium	4.564	0.115	5.762	0	79.2	86.4	113	4.99	8.93	20	S,RP

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 1110243-01AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 10/31/2011	Run ID: TJA IRIS_111101C						
Client ID: TP-12-S-1.0	Batch ID: 29857	TestNo: E6010		Analysis Date: 11/1/2011	SeqNo: 790191						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	41.16	0.576	28.81	20.05	73.2	75	121	44.33	7.42	20	S,RP
Lead	98.63	2.30	115.2	7.411	79.2	84.9	109	104.7	6.01	20	S,RP
Selenium	88.89	2.30	115.2	0	77.1	77.7	116	94.23	5.83	20	S,RP
Silver	50.86	2.30	57.62	1.867	85	75	123	52.96	4.04	20	

Sample ID: 1111006-02AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/2/2011	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/3/2011	SeqNo: 790860						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	89.05	1.82	90.91	0.9818	96.9	86.1	109	86.83	2.53	20	
Barium	48.62	0.909	45.45	2.1	102	75	125	46.45	4.55	20	
Cadmium	4.509	0.0909	4.545	0	99.2	86.4	113	4.333	3.98	20	
Chromium	35.05	0.455	22.73	5.636	129	75	121	33.92	3.27	20	S,RP
Lead	90.57	1.82	90.91	0	99.6	84.9	109	86.74	4.32	20	
Selenium	89.24	1.82	90.91	1.027	97	77.7	116	85.05	4.81	20	

Sample ID: 1111006-02AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/2/2011	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/4/2011	SeqNo: 791096						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	44.72	1.82	45.45	0	98.4	75	123	43.02	3.87	20	

Sample ID: 1110243-16AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 11/8/2011	Run ID: TJA IRIS_111109A						
Client ID: TP-17-S-1.5	Batch ID: 29919	TestNo: E6010		Analysis Date: 11/9/2011	SeqNo: 792125						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	97.66	2.11	105.7	2.803	89.8	86.1	109	103.5	5.77	20	S,MC
Barium	262.6	1.06	52.83	195.4	127	75	125	242.3	8.04	20	
Cadmium	5.357	0.106	5.283	0.2699	96.3	86.4	113	5.577	4.03	20	
Chromium	55.19	0.528	26.42	29.8	96.1	75	121	54.35	1.53	20	S,MC
Lead	436.1	2.11	105.7	247.6	178	84.9	109	381.4	13.4	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 1110243-16AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 11/8/2011	Run ID: TJA IRIS_111109A						
Client ID: TP-17-S-1.5	Batch ID: 29919	TestNo: E6010		Analysis Date: 11/9/2011	SeqNo: 792125						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium	86.53	2.11	105.7	0	81.9	77.7	116	90.61	4.61	20	
Silver	51.85	2.11	52.83	1.786	94.8	75	123	54.05	4.16	20	

Sample ID: 1110243-01ADUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 10/31/2011	Run ID: TJA IRIS_111101C						
Client ID: TP-12-S-1.0	Batch ID: 29857	TestNo: E6010		Analysis Date: 11/1/2011	SeqNo: 790188						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	3.4	2.30	0	0	0	0	0	2.835	18.1	20	
Barium	204.2	1.15	0	0	0	0	0	202	1.08	20	
Cadmium	ND	0.115	0	0	0	0	0	0	0	20	
Chromium	20	0.576	0	0	0	0	0	20.05	0.288	20	
Lead	7.445	2.30	0	0	0	0	0	7.411	0.465	20	
Selenium	ND	2.30	0	0	0	0	0	0	0	20	
Silver	1.66	2.30	0	0	0	0	0	1.867	0	20	J

Sample ID: 1111006-02ADUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/2/2011	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/3/2011	SeqNo: 790857						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	1.82	0	0	0	0	0	0.9818	0	20	
Barium	2.609	0.909	0	0	0	0	0	2.1	21.6	20	R
Cadmium	ND	0.0909	0	0	0	0	0	0	0	20	
Chromium	5.8	0.455	0	0	0	0	0	5.636	2.86	20	
Lead	ND	1.82	0	0	0	0	0	0	0	20	
Selenium	ND	1.82	0	0	0	0	0	1.027	0	20	

Sample ID: 1111006-02ADUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/2/2011	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/4/2011	SeqNo: 791094						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Silver	ND	1.82	0	0	0	0	0	0	0	20	
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Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 1110243-16ADUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 11/8/2011	Run ID: TJA IRIS_111109A						
Client ID: TP-17-S-1.5	Batch ID: 29919	TestNo: E6010		Analysis Date: 11/9/2011	SeqNo: 792123						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	3.381	2.11	0	0	0	0	0	2.803	18.7	20	
Barium	175.9	1.06	0	0	0	0	0	195.4	10.5	20	
Cadmium	0.2747	0.106	0	0	0	0	0	0.2699	1.77	20	
Chromium	22.96	0.528	0	0	0	0	0	29.8	25.9	20	R
Lead	266.7	2.11	0	0	0	0	0	247.6	7.43	20	
Selenium	ND	2.11	0	0	0	0	0	0	0	20	
Silver	1.733	2.11	0	0	0	0	0	1.786	0	20	J

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_111101C						
Client ID: ZZZZZ	Batch ID: 29857	TestNo: E6010		Analysis Date: 11/1/2011	SeqNo: 790173						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	95.78	2.00	100	0	95.8	90	110	0	0		
Barium	48.42	1.00	50	0	96.8	90	110	0	0		
Cadmium	4.82	0.100	5	0	96.4	90	110	0	0		
Chromium	24.07	0.500	25	0	96.3	90	110	0	0		
Lead	97.21	2.00	100	0	97.2	90	110	0	0		
Selenium	95.74	2.00	100	0	95.7	90	110	0	0		
Silver	48.37	2.00	50	0	96.7	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_111101C						
Client ID: ZZZZZ	Batch ID: 29857	TestNo: E6010		Analysis Date: 11/1/2011	SeqNo: 790180						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	94.57	2.00	100	0	94.6	90	110	0	0		
Barium	47.87	1.00	50	0	95.7	90	110	0	0		
Cadmium	4.71	0.100	5	0	94.2	90	110	0	0		
Chromium	23.74	0.500	25	0	95	90	110	0	0		
Lead	94.47	2.00	100	0	94.5	90	110	0	0		
Selenium	92.29	2.00	100	0	92.3	90	110	0	0		
Silver	46.96	2.00	50	0	93.9	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:					Run ID: TJA IRIS_111101C		
Client ID: ZZZZZ	Batch ID: 29857	TestNo: E6010		Analysis Date: 11/1/2011					SeqNo: 790190		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	96.64	2.00	100	0	96.6	90	110	0	0		
Barium	48.31	1.00	50	0	96.6	90	110	0	0		
Cadmium	4.81	0.100	5	0	96.2	90	110	0	0		
Chromium	25.1	0.500	25	0	100	90	110	0	0		
Lead	98.01	2.00	100	0	98	90	110	0	0		
Selenium	94.3	2.00	100	0	94.3	90	110	0	0		
Silver	49.88	2.00	50	0	99.8	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_111101C						
Client ID: ZZZZZ	Batch ID: 29857	TestNo: E6010		Analysis Date: 11/1/2011	SeqNo: 790200						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	97	2.00	100	0	97	90	110	0	0		
Barium	49.4	1.00	50	0	98.8	90	110	0	0		
Cadmium	4.85	0.100	5	0	97	90	110	0	0		
Chromium	25.27	0.500	25	0	101	90	110	0	0		
Lead	98.03	2.00	100	0	98	90	110	0	0		
Selenium	95.53	2.00	100	0	95.5	90	110	0	0		
Silver	48.58	2.00	50	0	97.2	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/3/2011	SeqNo: 790850						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	96.91	2.00	100	0	96.9	90	110	0	0		
Barium	48.08	1.00	50	0	96.2	90	110	0	0		
Cadmium	4.84	0.100	5	0	96.8	90	110	0	0		
Chromium	25.24	0.500	25	0	101	90	110	0	0		
Lead	98.37	2.00	100	0	98.4	90	110	0	0		
Selenium	93.94	2.00	100	0	93.9	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/3/2011	SeqNo: 790865						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	97	2.00	100	0	97	90	110	0	0		
Barium	49.63	1.00	50	0	99.3	90	110	0	0		
Cadmium	4.95	0.100	5	0	99	90	110	0	0		
Chromium	24.56	0.500	25	0	98.2	90	110	0	0		
Lead	99.03	2.00	100	0	99	90	110	0	0		
Selenium	97.01	2.00	100	0	97	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/3/2011	SeqNo: 790877						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	96.35	2.00	100	0	96.4	90	110	0	0		
Barium	50.96	1.00	50	0	102	90	110	0	0		
Cadmium	5.03	0.100	5	0	101	90	110	0	0		
Chromium	25.43	0.500	25	0	102	90	110	0	0		
Lead	99.99	2.00	100	0	100	90	110	0	0		
Selenium	98.36	2.00	100	0	98.4	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/4/2011	SeqNo: 791092						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Silver	47.9	2.00	50	0	95.8	90	110	0	0		
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Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/4/2011	SeqNo: 791101						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Silver	48	2.00	50	0	96	90	110	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:					Run ID: TJA IRIS_111103E		
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/4/2011					SeqNo: 791107		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Silver	48.93	2.00	50	0	97.9	90	110	0	0		
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Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_111109A						
Client ID: ZZZZZ	Batch ID: 29919	TestNo: E6010		Analysis Date: 11/9/2011	SeqNo: 792128						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	98.54	2.00	100	0	98.5	90	110	0	0		
Barium	49.6	1.00	50	0	99.2	90	110	0	0		
Cadmium	4.88	0.100	5	0	97.6	90	110	0	0		
Chromium	25.6	0.500	25	0	102	90	110	0	0		
Lead	100	2.00	100	0	100	90	110	0	0		
Selenium	96.99	2.00	100	0	97	90	110	0	0		
Silver	46.32	2.00	50	0	92.6	90	110	0	0		

Sample ID: ICV	SampType: ICV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_111101C						
Client ID: ZZZZZ	Batch ID: 29857	TestNo: E6010		Analysis Date: 11/1/2011	SeqNo: 790172						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	98.15	2.00	100	0	98.2	90	110	0	0		
Barium	49.35	1.00	50	0	98.7	90	110	0	0		
Cadmium	4.92	0.100	5	0	98.4	90	110	0	0		
Chromium	25.54	0.500	25	0	102	90	110	0	0		
Lead	98.94	2.00	100	0	98.9	90	110	0	0		
Selenium	96.19	2.00	100	0	96.2	90	110	0	0		
Silver	48.85	2.00	50	0	97.7	90	110	0	0		

Sample ID: ICV	SampType: ICV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/3/2011	SeqNo: 790849						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	96.23	2.00	100	0	96.2	90	110	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: ICV	SampType: ICV	TestCode: 6010_S	Units: mg/Kg	Prep Date:				Run ID: TJA IRIS_111103E			
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010	Analysis Date: 11/3/2011				SeqNo: 790849				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	48.71	1.00	50	0	97.4	90	110	0	0		
Cadmium	4.85	0.100	5	0	97	90	110	0	0		
Chromium	24.91	0.500	25	0	99.6	90	110	0	0		
Lead	96.64	2.00	100	0	96.6	90	110	0	0		
Selenium	95.33	2.00	100	0	95.3	90	110	0	0		

Sample ID: ICV	SampType: ICV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/4/2011	SeqNo: 791089						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	49.84	2.00	50	0	99.7	90	110	0	0		

Sample ID: ICV	SampType: ICV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_111109A						
Client ID: ZZZZZ	Batch ID: 29919	TestNo: E6010		Analysis Date: 11/9/2011	SeqNo: 792119						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	100.3	2.00	100	0	100	90	110	0	0		
Barium	50.91	1.00	50	0	102	90	110	0	0		
Cadmium	4.94	0.100	5	0	98.8	90	110	0	0		
Chromium	26.06	0.500	25	0	104	90	110	0	0		
Lead	102.5	2.00	100	0	103	90	110	0	0		
Selenium	99.64	2.00	100	0	99.6	90	110	0	0		
Silver	46.37	2.00	50	0	92.7	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: MB-29846	SampType: MBLK	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 10/28/2011	Run ID: GCK_111031A						
Client ID: ZZZZZ	Batch ID: 29846	TestNo: SW8082		Analysis Date: 10/31/2011	SeqNo: 789609						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	ND	0.333									
Aroclor 1221	ND	0.333									
Aroclor 1232	ND	0.333									
Aroclor 1242	ND	0.333									
Aroclor 1248	ND	0.333									
Aroclor 1254	ND	0.333									
Aroclor 1260	ND	0.333									
Aroclor 1262	ND	0.333									
Aroclor 1268	ND	0.333									
Surr: Decachlorobiphenyl	7585	0	6667	0	114	56.5	130	0	0		

Sample ID: MB-29889	SampType: MBLK	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 11/3/2011	Run ID: GCK_111104A						
Client ID: ZZZZZ	Batch ID: 29889	TestNo: SW8082		Analysis Date: 11/4/2011	SeqNo: 791236						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	ND	0.333									
Aroclor 1221	ND	0.333									
Aroclor 1232	ND	0.333									
Aroclor 1242	ND	0.333									
Aroclor 1248	ND	0.333									
Aroclor 1254	ND	0.333									
Aroclor 1260	ND	0.333									
Aroclor 1262	ND	0.333									
Aroclor 1268	ND	0.333									
Surr: Decachlorobiphenyl	6581	0	6667	0	98.7	56.5	130	0	0		

Sample ID: MB-29913	SampType: MBLK	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 11/7/2011	Run ID: GCK_111107A						
Client ID: ZZZZZ	Batch ID: 29913	TestNo: SW8082		Analysis Date: 11/7/2011	SeqNo: 791637						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	ND	0.333									
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: MB-29913	SampType: MBLK	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 11/7/2011	Run ID: GCK_111107A						
Client ID: ZZZZZ	Batch ID: 29913	TestNo: SW8082		Analysis Date: 11/7/2011	SeqNo: 791637						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1221	ND	0.333									
Aroclor 1232	ND	0.333									
Aroclor 1242	ND	0.333									
Aroclor 1248	ND	0.333									
Aroclor 1254	ND	0.333									
Aroclor 1260	ND	0.333									
Aroclor 1262	ND	0.333									
Aroclor 1268	ND	0.333									
Surr: Decachlorobiphenyl	7595	0	6667	0	114	56.5	130	0	0		

Sample ID: LCS-29846	SampType: LCS	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 10/28/2011	Run ID: GCK_111031A						
Client ID: ZZZZZ	Batch ID: 29846	TestNo: SW8082		Analysis Date: 10/31/2011	SeqNo: 789610						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	54	0.333	66.67	0	81	44.3	137	0	0		
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Sample ID: LCS-29889	SampType: LCS	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 11/3/2011	Run ID: GCK_111104A						
Client ID: ZZZZZ	Batch ID: 29889	TestNo: SW8082		Analysis Date: 11/4/2011	SeqNo: 791238						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	60.67	0.333	66.67	0	91	44.3	137	0	0		
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Sample ID: LCS-29913	SampType: LCS	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 11/7/2011	Run ID: GCK_111107A						
Client ID: ZZZZZ	Batch ID: 29913	TestNo: SW8082		Analysis Date: 11/7/2011	SeqNo: 791638						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	60	0.333	66.67	0	90	44.3	137	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: 1110221-01AMS	SampType: MS	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 10/28/2011	Run ID: GCK_111031A						
Client ID: ZZZZZ	Batch ID: 29846	TestNo: SW8082		Analysis Date: 10/31/2011	SeqNo: 789611						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	62	0.333	66.67	0	93	56.6	123	0	0		
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Sample ID: 1110255-13AMS	SampType: MS	TestCode: 8082LL_S	Units: µg/Kg-dry	Prep Date: 11/3/2011	Run ID: GCK_111104A						
Client ID: ZZZZZ	Batch ID: 29889	TestNo: SW8082		Analysis Date: 11/4/2011	SeqNo: 791239						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	86.29	0.454	90.83	0	95	56.6	123	0	0		
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Sample ID: 1110243-16AMS	SampType: MS	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 11/7/2011	Run ID: GCK_111107A						
Client ID: TP-17-S-1.5	Batch ID: 29913	TestNo: SW8082		Analysis Date: 11/7/2011	SeqNo: 791639						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	116.7	0.333	66.67	0	175	56.6	123	0	0		S,MI
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Sample ID: 1110221-01AMSD	SampType: MSD	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 10/28/2011	Run ID: GCK_111031A						
Client ID: ZZZZZ	Batch ID: 29846	TestNo: SW8082		Analysis Date: 10/31/2011	SeqNo: 789612						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	65.33	0.333	66.67	0	98	56.6	123	62	5.24	20	
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Sample ID: 1110255-13AMSD	SampType: MSD	TestCode: 8082LL_S	Units: µg/Kg-dry	Prep Date: 11/3/2011	Run ID: GCK_111104A						
Client ID: ZZZZZ	Batch ID: 29889	TestNo: SW8082		Analysis Date: 11/4/2011	SeqNo: 791242						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	79.02	0.454	90.83	0	87	56.6	123	86.29	8.79	20	
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Sample ID: 1110243-16AMSD	SampType: MSD	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 11/7/2011	Run ID: GCK_111107A						
Client ID: TP-17-S-1.5	Batch ID: 29913	TestNo: SW8082		Analysis Date: 11/7/2011	SeqNo: 791640						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: 1110243-16AMSD	SampType: MSD	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 11/7/2011	Run ID: GCK_111107A						
Client ID: TP-17-S-1.5	Batch ID: 29913	TestNo: SW8082		Analysis Date: 11/7/2011	SeqNo: 791640						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	233.3	0.333	66.67	0	350	56.6	123	116.7	66.7	20	SR,MI
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Sample ID: CCB	SampType: CCB	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_111031A						
Client ID: ZZZZZ	Batch ID: 29846	TestNo: SW8082		Analysis Date: 11/1/2011	SeqNo: 789864						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	ND	0.333	0	0	0	0	0	0	0		
Aroclor 1221	ND	0.333	0	0	0	0	0	0	0		
Aroclor 1232	ND	0.333	0	0	0	0	0	0	0		
Aroclor 1242	ND	0.333	0	0	0	0	0	0	0		
Aroclor 1248	ND	0.333	0	0	0	0	0	0	0		
Aroclor 1254	ND	0.333	0	0	0	0	0	0	0		
Aroclor 1260	ND	0.333	0	0	0	0	0	0	0		
Aroclor 1262	ND	0.333	0	0	0	0	0	0	0		
Aroclor 1268	ND	0.333	0	0	0	0	0	0	0		
Surr: Decachlorobiphenyl	ND	0	0	0	0	56.5	130	0	0		

Sample ID: CCB	SampType: CCB	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_111104A						
Client ID: ZZZZZ	Batch ID: 29889	TestNo: SW8082		Analysis Date: 11/8/2011	SeqNo: 791747						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1254	ND	0.333	0	0	0	0	0	0	0		
Aroclor 1260	ND	0.333	0	0	0	0	0	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_111031A						
Client ID: ZZZZZ	Batch ID: 29846	TestNo: SW8082		Analysis Date: 10/31/2011	SeqNo: 789608						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	70	0.333	66.67	0	105	85	115	0	0		
Aroclor 1260	66.67	0.333	66.67	0	100	85	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_111031A						
Client ID: ZZZZZ	Batch ID: 29846	TestNo: SW8082		Analysis Date: 10/31/2011	SeqNo: 789632						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	66	0.333	66.67	0	99	85	115	0	0	
Aroclor 1260	68.67	0.333	66.67	0	103	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_111031A						
Client ID: ZZZZZ	Batch ID: 29846	TestNo: SW8082		Analysis Date: 11/1/2011	SeqNo: 789863						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1260	66.67	0.333	66.67	0	100	85	115	0	0	
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Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_111031A						
Client ID: ZZZZZ	Batch ID: 29846	TestNo: SW8082		Analysis Date: 11/1/2011	SeqNo: 789866						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1260	65.33	0.333	66.67	0	98	85	115	0	0	
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Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_111104A						
Client ID: ZZZZZ	Batch ID: 29889	TestNo: SW8082		Analysis Date: 11/4/2011	SeqNo: 791234						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	70.67	0.333	66.67	0	106	85	115	0	0	
Aroclor 1254	66.67	0.333	66.67	0	100	85	115	0	0	
Aroclor 1260	66.67	0.333	66.67	0	100	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_111104A						
Client ID: ZZZZZ	Batch ID: 29889	TestNo: SW8082	Analysis Date: 11/4/2011	SeqNo: 791259							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	66.67	0.333	66.67	0	100	85	115	0	0	
Aroclor 1254	62	0.333	66.67	0	93	85	115	0	0	
Aroclor 1260	72	0.333	66.67	0	108	85	115	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_111107A						
Client ID: ZZZZZ	Batch ID: 29913	TestNo: SW8082		Analysis Date: 11/7/2011	SeqNo: 791636						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	72	0.333	66.67	0	108	85	115	0	0	
Aroclor 1254	66.67	0.333	66.67	0	100	85	115	0	0	
Aroclor 1260	66.67	0.333	66.67	0	100	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_111107A						
Client ID: ZZZZZ	Batch ID: 29913	TestNo: SW8082		Analysis Date: 11/7/2011	SeqNo: 791642						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	60.67	0.333	66.67	0	91	85	115	0	0	
Aroclor 1254	57.33	0.333	66.67	0	86	85	115	0	0	
Aroclor 1260	65.33	0.333	66.67	0	98	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:					Run ID: GCK_111104A		
Client ID: ZZZZZ	Batch ID: 29889	TestNo: SW8082	Analysis Date: 11/8/2011					SeqNo: 791746			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1254	66.67	0.333	66.67	0	100	85	115	0	0	
Aroclor 1260	66.67	0.333	66.67	0	100	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_111104A						
Client ID: ZZZZZ	Batch ID: 29889	TestNo: SW8082		Analysis Date: 11/8/2011	SeqNo: 791750						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1254	65.33	0.333	66.67	0	98	85	115	0	0	
Aroclor 1260	74.67	0.333	66.67	0	112	85	115	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: MBLK-29933	SampType: MBLK	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/5/2011	SeqNo: 791896						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	10.0									
1,1,1-Trichloroethane	ND	10.0									
1,1,2,2-Tetrachloroethane	ND	10.0									
1,1,2-Trichloroethane	ND	10.0									
1,1-Dichloroethane	ND	10.0									
1,1-Dichloroethene	ND	10.0									
1,1-Dichloropropene	ND	10.0									
1,2,3-Trichlorobenzene	ND	10.0									
1,2,3-Trichloropropane	ND	10.0									
1,2,4-Trichlorobenzene	ND	10.0									
1,2,4-Trimethylbenzene	ND	10.0									
1,2-Dibromo-3-chloropropane	ND	10.0									
1,2-Dibromoethane	ND	10.0									
1,2-Dichlorobenzene	ND	10.0									
1,2-Dichloroethane	ND	10.0									
1,2-Dichloropropane	ND	10.0									
1,3,5-Trimethylbenzene	ND	10.0									
1,3-Dichlorobenzene	ND	10.0									
1,3-Dichloropropane	ND	10.0									
1,4-Dichlorobenzene	ND	10.0									
2,2-Dichloropropane	ND	10.0									
2-Butanone	ND	40.0									
2-Chlorotoluene	ND	10.0									
2-Hexanone	ND	20.0									
4-Chlorotoluene	ND	10.0									
4-Isopropyltoluene	ND	10.0									
4-Methyl-2-pentanone	ND	40.0									
Acetone	9.71	100									J
Benzene	ND	10.0									
Bromobenzene	ND	10.0									
Bromochloromethane	ND	10.0									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: MBLK-29933	SampType: MBLK	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/5/2011	SeqNo: 791896							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	ND	10.0									
Bromoform	ND	10.0									
Bromomethane	ND	10.0									
Carbon Disulfide	ND	10.0									
Carbon tetrachloride	ND	10.0									
Chlorobenzene	ND	10.0									
Chloroethane	ND	10.0									
Chloroform	ND	10.0									
Chloromethane	ND	10.0									
cis-1,2-Dichloroethene	ND	10.0									
cis-1,3-Dichloropropene	ND	10.0									
Dibromochloromethane	ND	10.0									
Dibromomethane	ND	10.0									
Dichlorodifluoromethane	ND	10.0									
Ethylbenzene	ND	10.0									
Hexachlorobutadiene	ND	10.0									
Hexane	ND	0									
Isopropylbenzene	ND	10.0									
m,p-Xylene	ND	20.0									
Methyl tert-butyl ether	ND	10.0									
Methylene Chloride	4.48	50.0									J
n-Butylbenzene	ND	10.0									
n-Propylbenzene	ND	10.0									
Naphthalene	2.23	10.0									J
o-Xylene	ND	10.0									
sec-Butylbenzene	ND	10.0									
Styrene	ND	10.0									
tert-Butylbenzene	ND	10.0									
Tetrachloroethene	ND	10.0									
Toluene	1.17	10.0									J
trans-1,2-Dichloroethene	ND	10.0									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: MBLK-29933	SampType: MBLK	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/5/2011	SeqNo: 791896						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

trans-1,3-Dichloropropene	ND	10.0									
Trichloroethene	ND	10.0									
Trichlorofluoromethane	ND	10.0									
Vinyl Chloride	ND	10.0									
Surr: 1,2-Dichloroethane-d4	92.99	0	100	0	93	71.5	112	0	0		
Surr: 4-Bromofluorobenzene	82.13	0	100	0	82.1	75.7	122	0	0		
Surr: Dibromofluoromethane	99.8	0	100	0	99.8	64.3	124	0	0		
Surr: Toluene-d8	114.8	0	100	0	115	74.9	120	0	0		

Sample ID: LCS-29933	SampType: LCS	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/5/2011	SeqNo: 791895							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	56.81	10.0	60	0	94.7	65.4	133	0	0		
Benzene	63.26	10.0	60	0	105	78	123	0	0		
Chlorobenzene	59.57	10.0	60	0	99.3	79.5	125	0	0		
Toluene	58.35	10.0	60	0	97.2	77.5	132	0	0		
Trichloroethene	59.27	10.0	60	0	98.8	72.4	124	0	0		

Sample ID: LCSD-29933	SampType: LCSD	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/7/2011	SeqNo: 791901						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	49.98	10.0	60	0	83.3	65.4	133	56.81	12.8	20	
Benzene	65.47	10.0	60	0	109	78	123	63.26	3.43	20	
Chlorobenzene	58.19	10.0	60	0	97	79.5	125	59.57	2.34	20	
Toluene	61.07	10.0	60	0	102	77.5	132	58.35	4.56	20	
Trichloroethene	59.81	10.0	60	0	99.7	72.4	124	59.27	0.907	20	

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/7/2011	SeqNo: 791902						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,1-Trichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,2,2-Tetrachloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,2-Trichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
1,2,3-Trichlorobenzene	1.43	10.0	0	0	0	0	0	0	0		
1,2,3-Trichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,2,4-Trichlorobenzene	0.91	10.0	0	0	0	0	0	0	0		
1,2,4-Trimethylbenzene	ND	10.0	0	0	0	0	0	0	0		
1,2-Dibromo-3-chloropropane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dibromoethane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	0.36	10.0	0	0	0	0	0	0	0		
1,2-Dichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,3,5-Trimethylbenzene	ND	10.0	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	ND	10.0	0	0	0	0	0	0	0		
1,3-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,4-Dichlorobenzene	0.53	10.0	0	0	0	0	0	0	0		
2,2-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
2-Butanone	ND	40.0	0	0	0	0	0	0	0		
2-Chlorotoluene	ND	10.0	0	0	0	0	0	0	0		
2-Hexanone	ND	20.0	0	0	0	0	0	0	0		
4-Chlorotoluene	ND	10.0	0	0	0	0	0	0	0		
4-Isopropyltoluene	ND	10.0	0	0	0	0	0	0	0		
4-Methyl-2-pentanone	ND	40.0	0	0	0	0	0	0	0		
Acetone	13.26	100	0	0	0	0	0	0	0		
Benzene	ND	10.0	0	0	0	0	0	0	0		
Bromobenzene	ND	10.0	0	0	0	0	0	0	0		
Bromochloromethane	ND	10.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/7/2011	SeqNo: 791902							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	ND	10.0	0	0	0	0	0	0	0		
Bromoform	ND	10.0	0	0	0	0	0	0	0		
Bromomethane	ND	10.0	0	0	0	0	0	0	0		
Carbon Disulfide	ND	10.0	0	0	0	0	0	0	0		
Carbon tetrachloride	ND	10.0	0	0	0	0	0	0	0		
Chlorobenzene	ND	10.0	0	0	0	0	0	0	0		
Chloroethane	ND	10.0	0	0	0	0	0	0	0		
Chloroform	0.29	10.0	0	0	0	0	0	0	0		
Chloromethane	ND	10.0	0	0	0	0	0	0	0		
cis-1,2-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
cis-1,3-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
Dibromochloromethane	ND	10.0	0	0	0	0	0	0	0		
Dibromomethane	ND	10.0	0	0	0	0	0	0	0		
Dichlorodifluoromethane	ND	10.0	0	0	0	0	0	0	0		
Ethylbenzene	ND	10.0	0	0	0	0	0	0	0		
Hexachlorobutadiene	ND	10.0	0	0	0	0	0	0	0		
Hexane	ND	0	0	0	0	0	0	0	0		
Isopropylbenzene	ND	10.0	0	0	0	0	0	0	0		
m,p-Xylene	ND	20.0	0	0	0	0	0	0	0		
Methyl tert-butyl ether	ND	10.0	0	0	0	0	0	0	0		
Methylene Chloride	22.86	50.0	0	0	0	0	0	0	0		
n-Butylbenzene	0.35	10.0	0	0	0	0	0	0	0		
n-Propylbenzene	0.15	10.0	0	0	0	0	0	0	0		
Naphthalene	2.78	10.0	0	0	0	0	0	0	0		
o-Xylene	ND	10.0	0	0	0	0	0	0	0		
sec-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
Styrene	ND	10.0	0	0	0	0	0	0	0		
tert-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
Tetrachloroethene	ND	10.0	0	0	0	0	0	0	0		
Toluene	0.9	10.0	0	0	0	0	0	0	0		
trans-1,2-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:				Run ID: 5973J_111105A			
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/7/2011				SeqNo: 791902			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
Trichloroethene	ND	10.0	0	0	0	0	0	0	0		
Trichlorofluoromethane	ND	10.0	0	0	0	0	0	0	0		
Vinyl Chloride	ND	10.0	0	0	0	0	0	0	0		
Surr: 1,2-Dichloroethane-d4	99.04	0	100	0	99	71.5	112	0	0		
Surr: 4-Bromofluorobenzene	84.01	0	100	0	84	75.7	122	0	0		
Surr: Dibromofluoromethane	99.21	0	100	0	99.2	64.3	124	0	0		
Surr: Toluene-d8	122.1	0	100	0	122	74.9	120	0	0		S

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/8/2011	SeqNo: 791904							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,1-Trichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,2,2-Tetrachloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,2-Trichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
1,2,3-Trichlorobenzene	0.76	10.0	0	0	0	0	0	0	0		
1,2,3-Trichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,2,4-Trichlorobenzene	0.55	10.0	0	0	0	0	0	0	0		
1,2,4-Trimethylbenzene	ND	10.0	0	0	0	0	0	0	0		
1,2-Dibromo-3-chloropropane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dibromoethane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,3,5-Trimethylbenzene	ND	10.0	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	ND	10.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:				Run ID: 5973J_111105A			
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/8/2011				SeqNo: 791904				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,4-Dichlorobenzene	0.36	10.0	0	0	0	0	0	0	0		
2,2-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
2-Butanone	ND	40.0	0	0	0	0	0	0	0		
2-Chlorotoluene	ND	10.0	0	0	0	0	0	0	0		
2-Hexanone	ND	20.0	0	0	0	0	0	0	0		
4-Chlorotoluene	ND	10.0	0	0	0	0	0	0	0		
4-Isopropyltoluene	ND	10.0	0	0	0	0	0	0	0		
4-Methyl-2-pentanone	ND	40.0	0	0	0	0	0	0	0		
Acetone	10.7	100	0	0	0	0	0	0	0		
Benzene	ND	10.0	0	0	0	0	0	0	0		
Bromobenzene	ND	10.0	0	0	0	0	0	0	0		
Bromochloromethane	ND	10.0	0	0	0	0	0	0	0		
Bromodichloromethane	ND	10.0	0	0	0	0	0	0	0		
Bromoform	ND	10.0	0	0	0	0	0	0	0		
Bromomethane	ND	10.0	0	0	0	0	0	0	0		
Carbon Disulfide	ND	10.0	0	0	0	0	0	0	0		
Carbon tetrachloride	ND	10.0	0	0	0	0	0	0	0		
Chlorobenzene	ND	10.0	0	0	0	0	0	0	0		
Chloroethane	ND	10.0	0	0	0	0	0	0	0		
Chloroform	0.33	10.0	0	0	0	0	0	0	0		
Chloromethane	ND	10.0	0	0	0	0	0	0	0		
cis-1,2-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
cis-1,3-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
Dibromochloromethane	ND	10.0	0	0	0	0	0	0	0		
Dibromomethane	ND	10.0	0	0	0	0	0	0	0		
Dichlorodifluoromethane	ND	10.0	0	0	0	0	0	0	0		
Ethylbenzene	0.12	10.0	0	0	0	0	0	0	0		
Hexachlorobutadiene	ND	10.0	0	0	0	0	0	0	0		
Hexane	ND	0	0	0	0	0	0	0	0		
Isopropylbenzene	ND	10.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/8/2011	SeqNo: 791904							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
m,p-Xylene	ND	20.0	0	0	0	0	0	0	0		
Methyl tert-butyl ether	ND	10.0	0	0	0	0	0	0	0		
Methylene Chloride	23.21	50.0	0	0	0	0	0	0	0		
n-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
n-Propylbenzene	ND	10.0	0	0	0	0	0	0	0		
Naphthalene	1.65	10.0	0	0	0	0	0	0	0		
o-Xylene	ND	10.0	0	0	0	0	0	0	0		
sec-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
Styrene	ND	10.0	0	0	0	0	0	0	0		
tert-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
Tetrachloroethene	ND	10.0	0	0	0	0	0	0	0		
Toluene	1.18	10.0	0	0	0	0	0	0	0		
trans-1,2-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
trans-1,3-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
Trichloroethene	ND	10.0	0	0	0	0	0	0	0		
Trichlorofluoromethane	ND	10.0	0	0	0	0	0	0	0		
Vinyl Chloride	ND	10.0	0	0	0	0	0	0	0		
Surr: 1,2-Dichloroethane-d4	89.75	0	100	0	89.8	71.5	112	0	0		
Surr: 4-Bromofluorobenzene	86.42	0	100	0	86.4	75.7	122	0	0		
Surr: Dibromofluoromethane	98.36	0	100	0	98.4	64.3	124	0	0		
Surr: Toluene-d8	127.5	0	100	0	128	74.9	120	0	0		S

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/7/2011	SeqNo: 792100						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,1-Trichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,2,2-Tetrachloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,2-Trichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloroethane	ND	10.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/7/2011	SeqNo: 792100						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
1,2,3-Trichlorobenzene	1.43	10.0	0	0	0	0	0	0	0		
1,2,3-Trichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,2,4-Trichlorobenzene	0.91	10.0	0	0	0	0	0	0	0		
1,2,4-Trimethylbenzene	ND	10.0	0	0	0	0	0	0	0		
1,2-Dibromo-3-chloropropane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dibromoethane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	0.36	10.0	0	0	0	0	0	0	0		
1,2-Dichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,3,5-Trimethylbenzene	ND	10.0	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	ND	10.0	0	0	0	0	0	0	0		
1,3-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,4-Dichlorobenzene	0.53	10.0	0	0	0	0	0	0	0		
2,2-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
2-Butanone	ND	40.0	0	0	0	0	0	0	0		
2-Chlorotoluene	ND	10.0	0	0	0	0	0	0	0		
2-Hexanone	ND	20.0	0	0	0	0	0	0	0		
4-Chlorotoluene	ND	10.0	0	0	0	0	0	0	0		
4-Isopropyltoluene	ND	10.0	0	0	0	0	0	0	0		
4-Methyl-2-pentanone	ND	40.0	0	0	0	0	0	0	0		
Acetone	13.26	100	0	0	0	0	0	0	0		
Benzene	ND	10.0	0	0	0	0	0	0	0		
Bromobenzene	ND	10.0	0	0	0	0	0	0	0		
Bromochloromethane	ND	10.0	0	0	0	0	0	0	0		
Bromodichloromethane	ND	10.0	0	0	0	0	0	0	0		
Bromoform	ND	10.0	0	0	0	0	0	0	0		
Bromomethane	ND	10.0	0	0	0	0	0	0	0		
Carbon Disulfide	ND	10.0	0	0	0	0	0	0	0		
Carbon tetrachloride	ND	10.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/7/2011	SeqNo: 792100							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	10.0	0	0	0	0	0	0	0		
Chloroethane	ND	10.0	0	0	0	0	0	0	0		
Chloroform	0.29	10.0	0	0	0	0	0	0	0		
Chloromethane	ND	10.0	0	0	0	0	0	0	0		
cis-1,2-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
cis-1,3-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
Dibromochloromethane	ND	10.0	0	0	0	0	0	0	0		
Dibromomethane	ND	10.0	0	0	0	0	0	0	0		
Dichlorodifluoromethane	ND	10.0	0	0	0	0	0	0	0		
Ethylbenzene	ND	10.0	0	0	0	0	0	0	0		
Hexachlorobutadiene	ND	10.0	0	0	0	0	0	0	0		
Hexane	ND	0	0	0	0	0	0	0	0		
Isopropylbenzene	ND	10.0	0	0	0	0	0	0	0		
m,p-Xylene	ND	20.0	0	0	0	0	0	0	0		
Methyl tert-butyl ether	ND	10.0	0	0	0	0	0	0	0		
Methylene Chloride	22.86	50.0	0	0	0	0	0	0	0		
n-Butylbenzene	0.35	10.0	0	0	0	0	0	0	0		
n-Propylbenzene	0.15	10.0	0	0	0	0	0	0	0		
Naphthalene	2.78	10.0	0	0	0	0	0	0	0		
o-Xylene	ND	10.0	0	0	0	0	0	0	0		
sec-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
Styrene	ND	10.0	0	0	0	0	0	0	0		
tert-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
Tetrachloroethene	ND	10.0	0	0	0	0	0	0	0		
Toluene	0.9	10.0	0	0	0	0	0	0	0		
trans-1,2-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
trans-1,3-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
Trichloroethene	ND	10.0	0	0	0	0	0	0	0		
Trichlorofluoromethane	ND	10.0	0	0	0	0	0	0	0		
Vinyl Chloride	ND	10.0	0	0	0	0	0	0	0		
Surr: 1,2-Dichloroethane-d4	99.04	0	100	0	99	71.5	112	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/7/2011	SeqNo: 792100						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	84.01	0	100	0	84	75.7	122	0	0		
Surr: Dibromofluoromethane	99.21	0	100	0	99.2	64.3	124	0	0		
Surr: Toluene-d8	122.1	0	100	0	122	74.9	120	0	0		S

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/8/2011	SeqNo: 792107							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,1-Trichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,2,2-Tetrachloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,2-Trichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
1,2,3-Trichlorobenzene	0.76	10.0	0	0	0	0	0	0	0		
1,2,3-Trichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,2,4-Trichlorobenzene	0.55	10.0	0	0	0	0	0	0	0		
1,2,4-Trimethylbenzene	ND	10.0	0	0	0	0	0	0	0		
1,2-Dibromo-3-chloropropane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dibromoethane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,3,5-Trimethylbenzene	ND	10.0	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	ND	10.0	0	0	0	0	0	0	0		
1,3-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,4-Dichlorobenzene	0.36	10.0	0	0	0	0	0	0	0		
2,2-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
2-Butanone	ND	40.0	0	0	0	0	0	0	0		
2-Chlorotoluene	ND	10.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/8/2011	SeqNo: 792107							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Hexanone	ND	20.0	0	0	0	0	0	0	0		
4-Chlorotoluene	ND	10.0	0	0	0	0	0	0	0		
4-Isopropyltoluene	ND	10.0	0	0	0	0	0	0	0		
4-Methyl-2-pentanone	ND	40.0	0	0	0	0	0	0	0		
Acetone	10.7	100	0	0	0	0	0	0	0		
Benzene	ND	10.0	0	0	0	0	0	0	0		
Bromobenzene	ND	10.0	0	0	0	0	0	0	0		
Bromochloromethane	ND	10.0	0	0	0	0	0	0	0		
Bromodichloromethane	ND	10.0	0	0	0	0	0	0	0		
Bromoform	ND	10.0	0	0	0	0	0	0	0		
Bromomethane	ND	10.0	0	0	0	0	0	0	0		
Carbon Disulfide	ND	10.0	0	0	0	0	0	0	0		
Carbon tetrachloride	ND	10.0	0	0	0	0	0	0	0		
Chlorobenzene	ND	10.0	0	0	0	0	0	0	0		
Chloroethane	ND	10.0	0	0	0	0	0	0	0		
Chloroform	0.33	10.0	0	0	0	0	0	0	0		
Chloromethane	ND	10.0	0	0	0	0	0	0	0		
cis-1,2-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
cis-1,3-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
Dibromochloromethane	ND	10.0	0	0	0	0	0	0	0		
Dibromomethane	ND	10.0	0	0	0	0	0	0	0		
Dichlorodifluoromethane	ND	10.0	0	0	0	0	0	0	0		
Ethylbenzene	0.12	10.0	0	0	0	0	0	0	0		
Hexachlorobutadiene	ND	10.0	0	0	0	0	0	0	0		
Hexane	ND	0	0	0	0	0	0	0	0		
Isopropylbenzene	ND	10.0	0	0	0	0	0	0	0		
m,p-Xylene	ND	20.0	0	0	0	0	0	0	0		
Methyl tert-butyl ether	ND	10.0	0	0	0	0	0	0	0		
Methylene Chloride	23.21	50.0	0	0	0	0	0	0	0		
n-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
n-Propylbenzene	ND	10.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/8/2011	SeqNo: 792107							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Napthalene	1.65	10.0	0	0	0	0	0	0	0		
o-Xylene	ND	10.0	0	0	0	0	0	0	0		
sec-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
Styrene	ND	10.0	0	0	0	0	0	0	0		
tert-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
Tetrachloroethene	ND	10.0	0	0	0	0	0	0	0		
Toluene	1.18	10.0	0	0	0	0	0	0	0		
trans-1,2-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
trans-1,3-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
Trichloroethene	ND	10.0	0	0	0	0	0	0	0		
Trichlorofluoromethane	ND	10.0	0	0	0	0	0	0	0		
Vinyl Chloride	ND	10.0	0	0	0	0	0	0	0		
Surr: 1,2-Dichloroethane-d4	89.75	0	100	0	89.8	71.5	112	0	0		
Surr: 4-Bromofluorobenzene	86.42	0	100	0	86.4	75.7	122	0	0		
Surr: Dibromofluoromethane	98.36	0	100	0	98.4	64.3	124	0	0		
Surr: Toluene-d8	127.5	0	100	0	128	74.9	120	0	0		S

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/9/2011	SeqNo: 792280							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,1-Trichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,2,2-Tetrachloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,2-Trichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
1,2,3-Trichlorobenzene	1.8	10.0	0	0	0	0	0	0	0		
1,2,3-Trichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,2,4-Trichlorobenzene	1.15	10.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/9/2011	SeqNo: 792280							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	ND	10.0	0	0	0	0	0	0	0		
1,2-Dibromo-3-chloropropane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dibromoethane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	0.43	10.0	0	0	0	0	0	0	0		
1,2-Dichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,3,5-Trimethylbenzene	ND	10.0	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	ND	10.0	0	0	0	0	0	0	0		
1,3-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,4-Dichlorobenzene	0.71	10.0	0	0	0	0	0	0	0		
2,2-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
2-Butanone	ND	40.0	0	0	0	0	0	0	0		
2-Chlorotoluene	ND	10.0	0	0	0	0	0	0	0		
2-Hexanone	ND	20.0	0	0	0	0	0	0	0		
4-Chlorotoluene	ND	10.0	0	0	0	0	0	0	0		
4-Isopropyltoluene	ND	10.0	0	0	0	0	0	0	0		
4-Methyl-2-pentanone	ND	40.0	0	0	0	0	0	0	0		
Acetone	5.9	100	0	0	0	0	0	0	0		
Benzene	ND	10.0	0	0	0	0	0	0	0		
Bromobenzene	ND	10.0	0	0	0	0	0	0	0		
Bromochloromethane	ND	10.0	0	0	0	0	0	0	0		
Bromodichloromethane	ND	10.0	0	0	0	0	0	0	0		
Bromoform	ND	10.0	0	0	0	0	0	0	0		
Bromomethane	ND	10.0	0	0	0	0	0	0	0		
Carbon Disulfide	ND	10.0	0	0	0	0	0	0	0		
Carbon tetrachloride	ND	10.0	0	0	0	0	0	0	0		
Chlorobenzene	ND	10.0	0	0	0	0	0	0	0		
Chloroethane	ND	10.0	0	0	0	0	0	0	0		
Chloroform	ND	10.0	0	0	0	0	0	0	0		
Chloromethane	ND	10.0	0	0	0	0	0	0	0		
cis-1,2-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/9/2011	SeqNo: 792280							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
Dibromochloromethane	ND	10.0	0	0	0	0	0	0	0		
Dibromomethane	ND	10.0	0	0	0	0	0	0	0		
Dichlorodifluoromethane	ND	10.0	0	0	0	0	0	0	0		
Ethylbenzene	ND	10.0	0	0	0	0	0	0	0		
Hexachlorobutadiene	0.53	10.0	0	0	0	0	0	0	0		
Hexane	ND	0	0	0	0	0	0	0	0		
Isopropylbenzene	ND	10.0	0	0	0	0	0	0	0		
m,p-Xylene	ND	20.0	0	0	0	0	0	0	0		
Methyl tert-butyl ether	ND	10.0	0	0	0	0	0	0	0		
Methylene Chloride	ND	50.0	0	0	0	0	0	0	0		
n-Butylbenzene	0.42	10.0	0	0	0	0	0	0	0		
n-Propylbenzene	0.16	10.0	0	0	0	0	0	0	0		
Naphthalene	3.21	10.0	0	0	0	0	0	0	0		
o-Xylene	ND	10.0	0	0	0	0	0	0	0		
sec-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
Styrene	ND	10.0	0	0	0	0	0	0	0		
tert-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
Tetrachloroethene	ND	10.0	0	0	0	0	0	0	0		
Toluene	0.87	10.0	0	0	0	0	0	0	0		
trans-1,2-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
trans-1,3-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
Trichloroethene	ND	10.0	0	0	0	0	0	0	0		
Trichlorofluoromethane	ND	10.0	0	0	0	0	0	0	0		
Vinyl Chloride	ND	10.0	0	0	0	0	0	0	0		
Surr: 1,2-Dichloroethane-d4	86.9	0	100	0	86.9	71.5	112	0	0		
Surr: 4-Bromofluorobenzene	96.67	0	100	0	96.7	75.7	122	0	0		
Surr: Dibromofluoromethane	91.21	0	100	0	91.2	64.3	124	0	0		
Surr: Toluene-d8	114.8	0	100	0	115	74.9	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/10/2011	SeqNo: 792593							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,1-Trichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,2,2-Tetrachloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,2-Trichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
1,2,3-Trichlorobenzene	1.4	10.0	0	0	0	0	0	0	0		
1,2,3-Trichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,2,4-Trichlorobenzene	0.85	10.0	0	0	0	0	0	0	0		
1,2,4-Trimethylbenzene	ND	10.0	0	0	0	0	0	0	0		
1,2-Dibromo-3-chloropropane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dibromoethane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,3,5-Trimethylbenzene	ND	10.0	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	ND	10.0	0	0	0	0	0	0	0		
1,3-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,4-Dichlorobenzene	0.46	10.0	0	0	0	0	0	0	0		
2,2-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
2-Butanone	ND	40.0	0	0	0	0	0	0	0		
2-Chlorotoluene	ND	10.0	0	0	0	0	0	0	0		
2-Hexanone	ND	20.0	0	0	0	0	0	0	0		
4-Chlorotoluene	ND	10.0	0	0	0	0	0	0	0		
4-Isopropyltoluene	ND	10.0	0	0	0	0	0	0	0		
4-Methyl-2-pentanone	ND	40.0	0	0	0	0	0	0	0		
Acetone	8.05	100	0	0	0	0	0	0	0		
Benzene	ND	10.0	0	0	0	0	0	0	0		
Bromobenzene	ND	10.0	0	0	0	0	0	0	0		
Bromochloromethane	ND	10.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/10/2011	SeqNo: 792593							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	ND	10.0	0	0	0	0	0	0	0		
Bromoform	ND	10.0	0	0	0	0	0	0	0		
Bromomethane	ND	10.0	0	0	0	0	0	0	0		
Carbon Disulfide	ND	10.0	0	0	0	0	0	0	0		
Carbon tetrachloride	ND	10.0	0	0	0	0	0	0	0		
Chlorobenzene	ND	10.0	0	0	0	0	0	0	0		
Chloroethane	ND	10.0	0	0	0	0	0	0	0		
Chloroform	0.23	10.0	0	0	0	0	0	0	0		
Chloromethane	ND	10.0	0	0	0	0	0	0	0		
cis-1,2-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
cis-1,3-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
Dibromochloromethane	ND	10.0	0	0	0	0	0	0	0		
Dibromomethane	ND	10.0	0	0	0	0	0	0	0		
Dichlorodifluoromethane	ND	10.0	0	0	0	0	0	0	0		
Ethylbenzene	0.14	10.0	0	0	0	0	0	0	0		
Hexachlorobutadiene	ND	10.0	0	0	0	0	0	0	0		
Hexane	ND	0	0	0	0	0	0	0	0		
Isopropylbenzene	ND	10.0	0	0	0	0	0	0	0		
m,p-Xylene	ND	20.0	0	0	0	0	0	0	0		
Methyl tert-butyl ether	ND	10.0	0	0	0	0	0	0	0		
Methylene Chloride	ND	50.0	0	0	0	0	0	0	0		
n-Butylbenzene	0.29	10.0	0	0	0	0	0	0	0		
n-Propylbenzene	ND	10.0	0	0	0	0	0	0	0		
Naphthalene	2.51	10.0	0	0	0	0	0	0	0		
o-Xylene	ND	10.0	0	0	0	0	0	0	0		
sec-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
Styrene	ND	10.0	0	0	0	0	0	0	0		
tert-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
Tetrachloroethene	ND	10.0	0	0	0	0	0	0	0		
Toluene	0.88	10.0	0	0	0	0	0	0	0		
trans-1,2-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/10/2011	SeqNo: 792593							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
Trichloroethene	ND	10.0	0	0	0	0	0	0	0		
Trichlorofluoromethane	ND	10.0	0	0	0	0	0	0	0		
Vinyl Chloride	ND	10.0	0	0	0	0	0	0	0		
Surr: 1,2-Dichloroethane-d4	89.47	0	100	0	89.5	71.5	112	0	0		
Surr: 4-Bromofluorobenzene	96.33	0	100	0	96.3	75.7	122	0	0		
Surr: Dibromofluoromethane	100.6	0	100	0	101	64.3	124	0	0		
Surr: Toluene-d8	114.2	0	100	0	114	74.9	120	0	0		

Sample ID: CCV-29933	SampType: CCV	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/5/2011	SeqNo: 791894						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	58.58	10.0	60	0	97.6	80	120	0	0		
1,2-Dichloropropane	58.13	10.0	60	0	96.9	80	120	0	0		
Chloroform	61.35	10.0	60	0	102	80	120	0	0		
Ethylbenzene	63.22	10.0	60	0	105	80	120	0	0		
Toluene	59.22	10.0	60	0	98.7	80	120	0	0		
Vinyl Chloride	49.6	10.0	60	0	82.7	80	120	0	0		

Sample ID: CCV-29933	SampType: CCV	TestCode: 8260_5035	Units: ug/Kg	Prep Date:					Run ID: 5973J_111105A		
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/7/2011					SeqNo: 791900		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	52.58	10.0	60	0	87.6	80	120	0	0		
1,2-Dichloropropane	56.44	10.0	60	0	94.1	80	120	0	0		
Chloroform	60.51	10.0	60	0	101	80	120	0	0		
Ethylbenzene	59.11	10.0	60	0	98.5	80	120	0	0		
Toluene	60.18	10.0	60	0	100	80	120	0	0		
Vinyl Chloride	71.55	10.0	60	0	119	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCV-29933	SampType: CCV	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/8/2011	SeqNo: 791903						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	53.29	10.0	60	0	88.8	80	120	0	0		
1,2-Dichloropropane	57.99	10.0	60	0	96.7	80	120	0	0		
Chloroform	61.53	10.0	60	0	103	80	120	0	0		
Ethylbenzene	56.87	10.0	60	0	94.8	80	120	0	0		
Toluene	61.67	10.0	60	0	103	80	120	0	0		
Vinyl Chloride	50.61	10.0	60	0	84.4	80	120	0	0		

Sample ID: CCV-29933	SampType: CCV	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/7/2011	SeqNo: 792098						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	52.58	10.0	60	0	87.6	80	120	0	0		
1,2-Dichloropropane	56.44	10.0	60	0	94.1	80	120	0	0		
Chloroform	60.51	10.0	60	0	101	80	120	0	0		
Ethylbenzene	59.11	10.0	60	0	98.5	80	120	0	0		
Toluene	60.18	10.0	60	0	100	80	120	0	0		
Vinyl Chloride	71.55	10.0	60	0	119	80	120	0	0		

Sample ID: CCV-29933	SampType: CCV	TestCode: 8260_5035	Units: ug/Kg	Prep Date:				Run ID: 5973J_111105A			
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/8/2011				SeqNo: 792106				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	53.29	10.0	60	0	88.8	80	120	0	0		
1,2-Dichloropropane	57.99	10.0	60	0	96.7	80	120	0	0		
Chloroform	61.53	10.0	60	0	103	80	120	0	0		
Ethylbenzene	56.87	10.0	60	0	94.8	80	120	0	0		
Toluene	61.67	10.0	60	0	103	80	120	0	0		
Vinyl Chloride	50.61	10.0	60	0	84.4	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCV-29933	SampType: CCV	TestCode: 8260_5035	Units: ug/Kg	Prep Date:				Run ID: 5973J_111105A			
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/9/2011				SeqNo: 792279			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	71.98	10.0	60	0	120	80	120	0	0		
1,2-Dichloropropane	62.37	10.0	60	0	104	80	120	0	0		
Chloroform	60.96	10.0	60	0	102	80	120	0	0		
Ethylbenzene	59.51	10.0	60	0	99.2	80	120	0	0		
Toluene	59.27	10.0	60	0	98.8	80	120	0	0		
Vinyl Chloride	67.21	10.0	60	0	112	80	120	0	0		

Sample ID: CCV-29933	SampType: CCV	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/10/2011	SeqNo: 792592						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	58.8	10.0	60	0	98	80	120	0	0		
1,2-Dichloropropane	59.61	10.0	60	0	99.4	80	120	0	0		
Chloroform	57.59	10.0	60	0	96	80	120	0	0		
Ethylbenzene	58.05	10.0	60	0	96.8	80	120	0	0		
Toluene	54.31	10.0	60	0	90.5	80	120	0	0		
Vinyl Chloride	48.7	10.0	60	0	81.2	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: MBLK-29856	SampType: MBLK	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_111031A
Client ID: ZZZZZ	Batch ID: 29856	TestNo: SW7471		Analysis Date: 10/31/2011	SeqNo: 789449
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury ND 0.0167

Sample ID: MB-29888	SampType: MBLK	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 11/3/2011	Run ID: CVAA_111103A
Client ID: ZZZZZ	Batch ID: 29888	TestNo: SW7471		Analysis Date: 11/3/2011	SeqNo: 790580
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury ND 0.0167

Sample ID: MB-29920	SampType: MBLK	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 11/8/2011	Run ID: CVAA_111108A
Client ID: ZZZZZ	Batch ID: 29920	TestNo: SW7471		Analysis Date: 11/8/2011	SeqNo: 791670
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury ND 0.0167

Sample ID: LCS-29856	SampType: LCS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 10/31/2011	Run ID: CVAA_111031A
Client ID: ZZZZZ	Batch ID: 29856	TestNo: SW7471		Analysis Date: 10/31/2011	SeqNo: 789448
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.2468 0.0167 0.25 0 98.7 88.2 113 0 0

Sample ID: LCS-29888	SampType: LCS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 11/3/2011	Run ID: CVAA_111103A
Client ID: ZZZZZ	Batch ID: 29888	TestNo: SW7471		Analysis Date: 11/3/2011	SeqNo: 790579
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.2514 0.0167 0.25 0 101 88.2 113 0 0

Sample ID: LCS-29920	SampType: LCS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 11/8/2011	Run ID: CVAA_111108A
Client ID: ZZZZZ	Batch ID: 29920	TestNo: SW7471		Analysis Date: 11/8/2011	SeqNo: 791669
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: LCS-29920	SampType: LCS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 11/8/2011	Run ID: CVAA_111108A						
Client ID: ZZZZZ	Batch ID: 29920	TestNo: SW7471		Analysis Date: 11/8/2011	SeqNo: 791669						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.2528	0.0167	0.25	0	101	88.2	113	0	0		
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Sample ID: 1110243-04AMS	SampType: MS	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 10/31/2011	Run ID: CVAA_111031A						
Client ID: TP-13-S-1.0	Batch ID: 29856	TestNo: SW7471		Analysis Date: 10/31/2011	SeqNo: 789440						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.2476	0.0164	0.2455	0.02849	89.3	78.1	125	0	0		
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Sample ID: 1110255-31AMS	SampType: MS	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 11/3/2011	Run ID: CVAA_111103A						
Client ID: ZZZZZ	Batch ID: 29888	TestNo: SW7471		Analysis Date: 11/3/2011	SeqNo: 790577						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	1.235	0.163	0.2442	2.117	-361	78.1	125	0	0		S,MC
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Sample ID: 1110243-13AMS	SampType: MS	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 11/8/2011	Run ID: CVAA_111108A						
Client ID: TP-16-S-1.5	Batch ID: 29920	TestNo: SW7471		Analysis Date: 11/8/2011	SeqNo: 791661						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	1.345	0.167	0.2506	1.121	89.2	78.1	125	0	0		
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Sample ID: 1110243-04AMSD	SampType: MSD	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 10/31/2011	Run ID: CVAA_111031A						
Client ID: TP-13-S-1.0	Batch ID: 29856	TestNo: SW7471		Analysis Date: 10/31/2011	SeqNo: 789441						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.2446	0.0158	0.2361	0.02849	91.6	78.1	125	0.2476	1.22	20	
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Sample ID: 1110255-31AMSD	SampType: MSD	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 11/3/2011	Run ID: CVAA_111103A						
Client ID: ZZZZZ	Batch ID: 29888	TestNo: SW7471		Analysis Date: 11/3/2011	SeqNo: 790578						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: 1110255-31AMSD	SampType: MSD	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 11/3/2011	Run ID: CVAA_111103A						
Client ID: ZZZZZ	Batch ID: 29888	TestNo: SW7471		Analysis Date: 11/3/2011	SeqNo: 790578						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	1.384	0.173	0.2586	2.117	-284	78.1	125	1.235	11.3	20	S,MC
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Sample ID: 1110243-13AMSD	SampType: MSD	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 11/8/2011	Run ID: CVAA_111108A						
Client ID: TP-16-S-1.5	Batch ID: 29920	TestNo: SW7471		Analysis Date: 11/8/2011	SeqNo: 791662						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	1.291	0.163	0.2437	1.121	69.8	78.1	125	1.345	4.07	20	S,MC
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Sample ID: 1110243-04ADUP	SampType: DUP	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 10/31/2011	Run ID: CVAA_111031A						
Client ID: TP-13-S-1.0	Batch ID: 29856	TestNo: SW7471		Analysis Date: 10/31/2011	SeqNo: 789439						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.02473	0.0164	0	0	0	0	0	0.02849	14.1	20	
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Sample ID: 1110255-31ADUP	SampType: DUP	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 11/3/2011	Run ID: CVAA_111103A						
Client ID: ZZZZZ	Batch ID: 29888	TestNo: SW7471		Analysis Date: 11/3/2011	SeqNo: 790576						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	1.605	0.159	0	0	0	0	0	2.117	27.5	20	R,MI
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Sample ID: 1110243-13ADUP	SampType: DUP	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 11/8/2011	Run ID: CVAA_111108A						
Client ID: TP-16-S-1.5	Batch ID: 29920	TestNo: SW7471		Analysis Date: 11/8/2011	SeqNo: 791660						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	1.216	0.167	0	0	0	0	0	1.121	8.13	20	
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Sample ID: CCV-29856	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:				Run ID: CVAA_111031A			
Client ID: ZZZZZ	Batch ID: 29856	TestNo: SW7471	Analysis Date: 10/31/2011				SeqNo: 789447				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: CCV-29856		SampType: CCV	TestCode: HG_CTS		Units: mg/Kg		Prep Date:			Run ID: CVAA_111031A		
Client ID: ZZZZZ		Batch ID: 29856	TestNo: SW7471			Analysis Date: 10/31/2011			SeqNo: 789447			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.2372	0.0167	0.25	0	94.9	90	110	0	0	
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Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:				Run ID: CVAA_111103A			
Client ID: ZZZZZ	Batch ID: 29888	TestNo: SW7471	Analysis Date: 11/3/2011				SeqNo: 790581				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.2379	0.0167	0.25	0	95.2	90	110	0	0	
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Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:				Run ID: CVAA_111103A			
Client ID: ZZZZZ	Batch ID: 29888	TestNo: SW7471	Analysis Date: 11/3/2011				SeqNo: 790582				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.2294	0.0167	0.25	0	91.8	90	110	0	0	
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Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_111108A						
Client ID: ZZZZZ	Batch ID: 29920	TestNo: SW7471		Analysis Date: 11/8/2011	SeqNo: 791668						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.2458	0.0167	0.25	0	98.3	90	110	0	0	
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Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:				Run ID: CVAA_111108A			
Client ID: ZZZZZ	Batch ID: 29920	TestNo: SW7471	Analysis Date: 11/8/2011				SeqNo: 791671				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.2456	0.0167	0.25	0	98.2	90	110	0	0	
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Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: MB-29845	SampType: MBLK	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 10/28/2011	Run ID: GC-M_111028A						
Client ID: ZZZZZ	Batch ID: 29845	TestNo: NWTPH-Dx		Analysis Date: 10/28/2011	SeqNo: 789302						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	33.43	0	33.33	0	100	50	150	0	0		

Sample ID: LCS-29845	SampType: LCS	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 10/28/2011	Run ID: GC-M_111028A						
Client ID: ZZZZZ	Batch ID: 29845	TestNo: NWTPH-Dx		Analysis Date: 10/28/2011	SeqNo: 789303						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	163.5	15.0	166.6	0	98.1	76.3	125	0	0		
Lube Oil	178.5	50.0	166.6	0	107	69.9	127	0	0		

Sample ID: 1110236-02BDUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 10/28/2011	Run ID: GC-M_111028A						
Client ID: ZZZZZ	Batch ID: 29845	TestNo: NWTPH-Dx		Analysis Date: 10/28/2011	SeqNo: 789305						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	20.1	0	0	0	0	0	9.857	0	20	
Lube Oil	31.59	67.1	0	0	0	0	0	41.11	0	20	J

Sample ID: CCB-29845	SampType: CCB	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:				Run ID: GC-M_111028A			
Client ID: ZZZZZ	Batch ID: 29845	TestNo: NWTPH-Dx		Analysis Date: 10/31/2011				SeqNo: 789903			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	2.086	15.0	0	0	0	0	0	0	0		
Lube Oil	43.87	50.0	0	0	0	0	0	0	0		
Surr: o-Terphenyl	32.94	0	33.33	0	98.8	50	150	0	0		

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_111028A						
Client ID: ZZZZZ	Batch ID: 29845	TestNo: NWTPH-Dx	Analysis Date: 10/28/2011	SeqNo: 789301							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_111028A						
Client ID: ZZZZZ	Batch ID: 29845	TestNo: NWTPH-Dx		Analysis Date: 10/28/2011	SeqNo: 789301						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1014	15.0	1009	0	100	85	115	0	0	
Lube Oil	501.9	50.0	524.9	0	95.6	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_111028A						
Client ID: ZZZZZ	Batch ID: 29845	TestNo: NWTPH-Dx	Analysis Date: 10/28/2011	SeqNo: 789306							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1296	15.0	1346	0	96.3	85	115	0	0	
Lube Oil	682	50.0	699.9	0	97.4	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_111028A						
Client ID: ZZZZZ	Batch ID: 29845	TestNo: NWTPH-Dx	Analysis Date: 10/31/2011	SeqNo: 789902							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1388	15.0	1346	0	103	85	115	0	0	
Lube Oil	666.4	50.0	699.9	0	95.2	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_111028A						
Client ID: ZZZZZ	Batch ID: 29845	TestNo: NWTPH-Dx		Analysis Date: 10/31/2011	SeqNo: 789908						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1070	15.0	1009	0	106	85	115	0	0	
Lube Oil	506.3	50.0	524.9	0	96.5	85	115	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: MBLK-29844	SampType: MBLK	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5975Q_111104A						
Client ID: ZZZZZ	Batch ID: 29844	TestNo: 8270SIM	Analysis Date: 11/4/2011	SeqNo: 791511							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	6.67									
2-Methylnaphthalene	1.333	6.67									J
Acenaphthene	ND	6.67									
Acenaphthylene	ND	6.67									
Anthracene	ND	6.67									
Benz(a)anthracene	3.333	6.67									J
Benzo(a)pyrene	4.667	6.67									J
Benzo(b)fluoranthene	3.333	6.67									J
Benzo(g,h,i)perylene	2	6.67									J
Benzo(k)fluoranthene	4.667	6.67									J
Chrysene	3.333	6.67									J
Dibenz(a,h)anthracene	2.667	6.67									J
Fluoranthene	2	6.67									J
Fluorene	0.6667	6.67									J
Indeno(1,2,3-cd)pyrene	2	6.67									J
Naphthalene	ND	6.67									
Phenanthrene	0.6667	6.67									J
Pyrene	1.333	6.67									J
Surr: 2-Fluorobiphenyl	4885	0	6667	0	73.3	42.6	128	0	0		
Surr: Nitrobenzene-d5	5612	0	6667	0	84.2	21.7	155	0	0		
Surr: p-Terphenyl-d14	7206	0	6667	0	108	44.9	155	0	0		

Sample ID: MB-29916	SampType: MBLK	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/7/2011	Run ID: 5973G_111109A						
Client ID: ZZZZZ	Batch ID: 29916	TestNo: 8270SIM		Analysis Date: 11/9/2011	SeqNo: 792202						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	6.67									
2-Methylnaphthalene	1.333	6.67									J
Acenaphthene	1.333	6.67									J
Acenaphthylene	ND	6.67									
Anthracene	ND	6.67									

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: MB-29916	SampType: MBLK	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/7/2011	Run ID: 5973G_111109A						
Client ID: ZZZZZ	Batch ID: 29916	TestNo: 8270SIM		Analysis Date: 11/9/2011	SeqNo: 792202						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	2.667	6.67									J
Benzo(a)pyrene	2.667	6.67									J
Benzo(b)fluoranthene	6	6.67									J
Benzo(g,h,i)perylene	4	6.67									J
Benzo(k)fluoranthene	1.333	6.67									J
Chrysene	4	6.67									J
Dibenz(a,h)anthracene	ND	6.67									
Fluoranthene	2.667	6.67									J
Fluorene	ND	6.67									
Indeno(1,2,3-cd)pyrene	4	6.67									J
Naphthalene	2	6.67									J
Phenanthrene	0.6667	6.67									J
Pyrene	2	6.67									J
Surr: 2-Fluorobiphenyl	4054	0	6667	0	60.8	42.6	128	0	0		
Surr: Nitrobenzene-d5	4221	0	6667	0	63.3	21.7	155	0	0		
Surr: p-Terphenyl-d14	4873	0	6667	0	73.1	44.9	155	0	0		

Sample ID: MB-29891	SampType: MBLK	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/3/2011	Run ID: 5973G_111110A						
Client ID: ZZZZZ	Batch ID: 29891	TestNo: 8270SIM		Analysis Date: 11/9/2011	SeqNo: 792262						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	6.67									
2-Methylnaphthalene	ND	6.67									
Acenaphthene	ND	6.67									
Acenaphthylene	ND	6.67									
Anthracene	0.6667	6.67									J
Benz(a)anthracene	4.667	6.67									J
Benzo(a)pyrene	5.333	6.67									J
Benzo(b)fluoranthene	5.333	6.67									J
Benzo(g,h,i)perylene	6	6.67									J
Benzo(k)fluoranthene	2.667	6.67									J

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: MB-29891	SampType: MBLK	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/3/2011	Run ID: 5973G_111110A						
Client ID: ZZZZZ	Batch ID: 29891	TestNo: 8270SIM	Analysis Date: 11/9/2011	SeqNo: 792262							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	6	6.67									J
Dibenz(a,h)anthracene	2.667	6.67									J
Fluoranthene	4	6.67									J
Fluorene	ND	6.67									
Indeno(1,2,3-cd)pyrene	4.667	6.67									J
Naphthalene	1.333	6.67									J
Phenanthrene	1.333	6.67									J
Pyrene	6	6.67									J
Surr: 2-Fluorobiphenyl	3828	0	6667	0	57.4	42.6	128	0	0		
Surr: Nitrobenzene-d5	4010	0	6667	0	60.1	21.7	155	0	0		
Surr: p-Terphenyl-d14	4624	0	6667	0	69.4	44.9	155	0	0		

Sample ID: LCS-29844	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 10/28/2011	Run ID: 5975Q_111104A						
Client ID: ZZZZZ	Batch ID: 29844	TestNo: 8270SIM		Analysis Date: 11/4/2011	SeqNo: 791512						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	237.3	6.67	333.3	0	71.2	39.6	107	0	0		
Benzo(g,h,i)perylene	253.3	6.67	333.3	0	76	49.7	135	0	0		
Chrysene	276.7	6.67	333.3	0	83	57.1	130	0	0		
Naphthalene	236	6.67	333.3	0	70.8	29.1	109	0	0		
Phenanthrene	281.3	6.67	333.3	0	84.4	48.4	115	0	0		
Pyrene	284	6.67	333.3	0	85.2	47.2	134	0	0		

Sample ID: LCS-29844	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 10/28/2011	Run ID: 5973P_111109A						
Client ID: ZZZZZ	Batch ID: 29844	TestNo: 8270SIM		Analysis Date: 11/9/2011	SeqNo: 792142						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	212	6.67	333.3	0	63.6	39.6	107	0	0		
Benzo(g,h,i)perylene	265.3	6.67	333.3	0	79.6	49.7	135	0	0		
Chrysene	218.7	6.67	333.3	0	65.6	57.1	130	0	0		
Naphthalene	189.3	6.67	333.3	0	56.8	29.1	109	0	0		

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CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: LCS-29844	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 10/28/2011	Run ID: 5973P_111109A						
Client ID: ZZZZZ	Batch ID: 29844	TestNo: 8270SIM		Analysis Date: 11/9/2011	SeqNo: 792142						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Phenanthrene	210.7	6.67	333.3	0	63.2	48.4	115	0	0	
Pyrene	245.3	6.67	333.3	0	73.6	47.2	134	0	0	

Sample ID: LCS-29916	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/7/2011	Run ID: 5973G_111109A						
Client ID: ZZZZZ	Batch ID: 29916	TestNo: 8270SIM		Analysis Date: 11/9/2011	SeqNo: 792203						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	184.7	6.67	333.3	0	55.4	39.6	107	0	0	
Benzo(g,h,i)perylene	166.7	6.67	333.3	0	50	49.7	135	0	0	
Chrysene	191.3	6.67	333.3	0	57.4	57.1	130	0	0	
Naphthalene	178.7	6.67	333.3	0	53.6	29.1	109	0	0	
Phenanthrene	186.7	6.67	333.3	0	56	48.4	115	0	0	
Pyrene	209.3	6.67	333.3	0	62.8	47.2	134	0	0	

Sample ID: LCS-29891	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/3/2011	Run ID: 5973G_111110A						
Client ID: ZZZZZ	Batch ID: 29891	TestNo: 8270SIM		Analysis Date: 11/9/2011	SeqNo: 792263						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	185.3	6.67	333.3	0	55.6	39.6	107	0	0	
Benzo(g,h,i)perylene	186.7	6.67	333.3	0	56	49.7	135	0	0	
Chrysene	212.7	6.67	333.3	0	63.8	57.1	130	0	0	
Naphthalene	168	6.67	333.3	0	50.4	29.1	109	0	0	
Phenanthrene	205.3	6.67	333.3	0	61.6	48.4	115	0	0	
Pyrene	244	6.67	333.3	0	73.2	47.2	134	0	0	

Sample ID: 1110243-16AMS	SampType: MS	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 11/7/2011	Run ID: 5973G_111109A						
Client ID: TP-17-S-1.5	Batch ID: 29916	TestNo: 8270SIM		Analysis Date: 11/9/2011	SeqNo: 792204						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	307.7	78.9	394.5	23.67	72	33.7	111	0	0	
Benzo(g,h,i)perylene	315.6	78.9	394.5	52.07	66.8	15	128	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: 1110243-16AMS	SampType: MS	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 11/7/2011	Run ID: 5973G_111109A						
Client ID: TP-17-S-1.5	Batch ID: 29916	TestNo: 8270SIM		Analysis Date: 11/9/2011	SeqNo: 792204						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chrysene	355	78.9	394.5	55.23	76	37.5	125	0	0		
Naphthalene	244.6	78.9	394.5	26.82	55.2	27.7	108	0	0		
Phenanthrene	355	78.9	394.5	55.23	76	20.2	139	0	0		
Pyrene	512.8	78.9	394.5	216.2	75.2	26.8	142	0	0		

Sample ID: 1110236-01BMS	SampType: MS	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 10/28/2011	Run ID: 5973P_111109A						
Client ID: ZZZZZ	Batch ID: 29844	TestNo: 8270SIM		Analysis Date: 11/9/2011	SeqNo: 792243						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	816.3	2720	340.1	544.2	80	33.7	111	0	0		JMI
Benzo(g,h,i)perylene	262900	2720	340.1	273700	-3200	15	128	0	0		S,MC
Chrysene	205700	2720	340.1	196100	2840	37.5	125	0	0		S,MC
Naphthalene	1361	2720	340.1	1224	40	27.7	108	0	0		JMI
Phenanthrene	20140	2720	340.1	23270	-920	20.2	139	0	0		S,MC
Pyrene	148300	2720	340.1	144900	1000	26.8	142	0	0		S,MC

Sample ID: 1110255-13AMS	SampType: MS	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 11/3/2011	Run ID: 5973G_111110A						
Client ID: ZZZZZ	Batch ID: 29891	TestNo: 8270SIM		Analysis Date: 11/10/2011	SeqNo: 792604						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	262.5	9.09	454.1	0	57.8	33.7	111	0	0		
Benzo(g,h,i)perylene	293.4	9.09	454.1	7.266	63	15	128	0	0		
Chrysene	322.4	9.09	454.1	5.45	69.8	37.5	125	0	0		
Naphthalene	233.4	9.09	454.1	3.633	50.6	27.7	108	0	0		
Phenanthrene	328.8	9.09	454.1	3.633	71.6	20.2	139	0	0		
Pyrene	438.7	9.09	454.1	9.083	94.6	26.8	142	0	0		

Sample ID: 1110243-16AMSD	SampType: MSD	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 11/7/2011	Run ID: 5973G_111109A						
Client ID: TP-17-S-1.5	Batch ID: 29916	TestNo: 8270SIM		Analysis Date: 11/9/2011	SeqNo: 792205						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: 1110243-16AMSD	SampType: MSD	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 11/7/2011	Run ID: 5973G_111109A						
Client ID: TP-17-S-1.5	Batch ID: 29916	TestNo: 8270SIM		Analysis Date: 11/9/2011	SeqNo: 792205						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	276.1	78.9	394.5	23.67	64	33.7	111	307.7	10.8	20	
Benzo(g,h,i)perylene	331.4	78.9	394.5	52.07	70.8	15	128	315.6	4.88	20	
Chrysene	347.1	78.9	394.5	55.23	74	37.5	125	355	2.25	20	
Naphthalene	220.9	78.9	394.5	26.82	49.2	27.7	108	244.6	10.2	20	
Phenanthrene	347.1	78.9	394.5	55.23	74	20.2	139	355	2.25	20	
Pyrene	520.7	78.9	394.5	216.2	77.2	26.8	142	512.8	1.53	20	

Sample ID: 1110236-01BMSD	SampType: MSD	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 10/28/2011	Run ID: 5973P_111109A						
Client ID: ZZZZZ	Batch ID: 29844	TestNo: 8270SIM		Analysis Date: 11/9/2011	SeqNo: 792244						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	544.2	2720	340.1	544.2	0	33.7	111	816.3	0	20	JS,MI
Benzo(g,h,i)perylene	249800	2720	340.1	273700	-7040	15	128	262900	5.10	20	S,MC
Chrysene	188000	2720	340.1	196100	-2360	37.5	125	205700	8.98	20	S,MC
Naphthalene	1088	2720	340.1	1224	-40	27.7	108	1361	0	20	JS,MI
Phenanthrene	19320	2720	340.1	23270	-1160	20.2	139	20140	4.14	20	S,MC
Pyrene	130300	2720	340.1	144900	-4280	26.8	142	148300	12.9	20	S,MC

Sample ID: 1110255-13AMSD	SampType: MSD	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 11/3/2011	Run ID: 5973G_111110A						
Client ID: ZZZZZ	Batch ID: 29891	TestNo: 8270SIM		Analysis Date: 11/10/2011	SeqNo: 792605						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	234.3	9.09	454.1	0	51.6	33.7	111	262.5	11.3	20	
Benzo(g,h,i)perylene	274.3	9.09	454.1	7.266	58.8	15	128	293.4	6.72	20	
Chrysene	304.3	9.09	454.1	5.45	65.8	37.5	125	322.4	5.80	20	
Naphthalene	203.5	9.09	454.1	3.633	44	27.7	108	233.4	13.7	20	
Phenanthrene	300.6	9.09	454.1	3.633	65.4	20.2	139	328.8	8.95	20	
Pyrene	412.4	9.09	454.1	9.083	88.8	26.8	142	438.7	6.19	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCB-29844	SampType: CCB	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:				Run ID: 5973P_111109A			
Client ID: ZZZZZ	Batch ID: 29844	TestNo: 8270SIM		Analysis Date: 11/9/2011				SeqNo: 792141			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.6667	6.67	0	0	0	0	0	0	0		
2-Methylnaphthalene	0.6667	6.67	0	0	0	0	0	0	0		
Acenaphthene	0.6667	6.67	0	0	0	0	0	0	0		
Acenaphthylene	ND	6.67	0	0	0	0	0	0	0		
Anthracene	ND	6.67	0	0	0	0	0	0	0		
Benz(a)anthracene	1.333	6.67	0	0	0	0	0	0	0		
Benzo(a)pyrene	1.333	6.67	0	0	0	0	0	0	0		
Benzo(b)fluoranthene	2.667	6.67	0	0	0	0	0	0	0		
Benzo(g,h,i)perylene	1.333	6.67	0	0	0	0	0	0	0		
Benzo(k)fluoranthene	0.6667	6.67	0	0	0	0	0	0	0		
Chrysene	1.333	6.67	0	0	0	0	0	0	0		
Dibenz(a,h)anthracene	ND	6.67	0	0	0	0	0	0	0		
Fluoranthene	0.6667	6.67	0	0	0	0	0	0	0		
Fluorene	ND	6.67	0	0	0	0	0	0	0		
Indeno(1,2,3-cd)pyrene	0.6667	6.67	0	0	0	0	0	0	0		
Naphthalene	2	6.67	0	0	0	0	0	0	0		
Phenanthrene	0.6667	6.67	0	0	0	0	0	0	0		
Pyrene	0.6667	6.67	0	0	0	0	0	0	0		
Surr: 2-Fluorobiphenyl	3098	0	6667	0	46.5	42.6	128	0	0		
Surr: Nitrobenzene-d5	3137	0	6667	0	47.1	21.7	155	0	0		
Surr: p-Terphenyl-d14	4063	0	6667	0	60.9	44.9	155	0	0		

Sample ID: CCB-29891	SampType: CCB	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5973G_111110A						
Client ID: ZZZZZ	Batch ID: 29891	TestNo: 8270SIM		Analysis Date: 11/10/2011	SeqNo: 792426						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.6667	6.67	0	0	0	0	0	0	0		
2-Methylnaphthalene	0.6667	6.67	0	0	0	0	0	0	0		
Acenaphthene	ND	6.67	0	0	0	0	0	0	0		
Acenaphthylene	ND	6.67	0	0	0	0	0	0	0		
Anthracene	ND	6.67	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCB-29891	SampType: CCB	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5973G_111110A						
Client ID: ZZZZZ	Batch ID: 29891	TestNo: 8270SIM	Analysis Date: 11/10/2011	SeqNo: 792426							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	4.667	6.67	0	0	0	0	0	0	0		
Benzo(a)pyrene	6	6.67	0	0	0	0	0	0	0		
Benzo(b)fluoranthene	4.667	6.67	0	0	0	0	0	0	0		
Benzo(g,h,i)perylene	6	6.67	0	0	0	0	0	0	0		
Benzo(k)fluoranthene	2	6.67	0	0	0	0	0	0	0		
Chrysene	5.333	6.67	0	0	0	0	0	0	0		
Dibenz(a,h)anthracene	ND	6.67	0	0	0	0	0	0	0		
Fluoranthene	3.333	6.67	0	0	0	0	0	0	0		
Fluorene	0.6667	6.67	0	0	0	0	0	0	0		
Indeno(1,2,3-cd)pyrene	1.333	6.67	0	0	0	0	0	0	0		
Naphthalene	1.333	6.67	0	0	0	0	0	0	0		
Phenanthrene	1.333	6.67	0	0	0	0	0	0	0		
Pyrene	4.667	6.67	0	0	0	0	0	0	0		
Surr: 2-Fluorobiphenyl	3834	0	6667	0	57.5	42.6	128	0	0		
Surr: Nitrobenzene-d5	3874	0	6667	0	58.1	21.7	155	0	0		
Surr: p-Terphenyl-d14	4933	0	6667	0	74	44.9	155	0	0		

Sample ID: CCB-29844	SampType: CCB	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5973P_111109A						
Client ID: ZZZZZ	Batch ID: 29844	TestNo: 8270SIM		Analysis Date: 11/10/2011	SeqNo: 792467						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.6667	6.67	0	0	0	0	0	0	0		
2-Methylnaphthalene	0.6667	6.67	0	0	0	0	0	0	0		
Acenaphthene	0.6667	6.67	0	0	0	0	0	0	0		
Acenaphthylene	ND	6.67	0	0	0	0	0	0	0		
Anthracene	0.6667	6.67	0	0	0	0	0	0	0		
Benz(a)anthracene	4.667	6.67	0	0	0	0	0	0	0		
Benzo(g,h,i)perylene	5.333	6.67	0	0	0	0	0	0	0		
Benzo(k)fluoranthene	3.333	6.67	0	0	0	0	0	0	0		
Chrysene	6	6.67	0	0	0	0	0	0	0		
Dibenz(a,h)anthracene	4	6.67	0	0	0	0	0	0	0		

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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCB-29844	SampType: CCB	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5973P_111109A						
Client ID: ZZZZZ	Batch ID: 29844	TestNo: 8270SIM	Analysis Date: 11/10/2011	SeqNo: 792467							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoranthene	4.667	6.67	0	0	0	0	0	0	0		
Fluorene	0.6667	6.67	0	0	0	0	0	0	0		
Indeno(1,2,3-cd)pyrene	6	6.67	0	0	0	0	0	0	0		
Naphthalene	1.333	6.67	0	0	0	0	0	0	0		
Phenanthrene	2	6.67	0	0	0	0	0	0	0		
Pyrene	4.667	6.67	0	0	0	0	0	0	0		
Surr: 2-Fluorobiphenyl	4288	0	6667	0	64.3	42.6	128	0	0		
Surr: Nitrobenzene-d5	4169	0	6667	0	62.5	21.7	155	0	0		
Surr: p-Terphenyl-d14	5170	0	6667	0	77.5	44.9	155	0	0		

Sample ID: CCB-29844	SampType: CCB	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5973P_111109A						
Client ID: ZZZZZ	Batch ID: 29844	TestNo: 8270SIM		Analysis Date: 11/10/2011	SeqNo: 792596						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	2	6.67	0	0	0	0	0	0	0		
Benzo(b)fluoranthene	2	6.67	0	0	0	0	0	0	0		
Surr: 2-Fluorobiphenyl	4130	0	6667	0	61.9	42.6	128	0	0		
Surr: Nitrobenzene-d5	4423	0	6667	0	66.3	21.7	155	0	0		
Surr: p-Terphenyl-d14	4875	0	6667	0	73.1	44.9	155	0	0		

Sample ID: CCV-29844	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5975Q_111104A						
Client ID: ZZZZZ	Batch ID: 29844	TestNo: 8270SIM		Analysis Date: 11/4/2011	SeqNo: 791510						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	347.3	6.67	333.3	0	104	70	130	0	0		
2-Methylnaphthalene	314.7	6.67	333.3	0	94.4	70	130	0	0		
Acenaphthene	305.3	6.67	333.3	0	91.6	70	130	0	0		
Acenaphthylene	330.7	6.67	333.3	0	99.2	70	130	0	0		
Anthracene	314	6.67	333.3	0	94.2	70	130	0	0		
Benz(a)anthracene	320.7	6.67	333.3	0	96.2	70	130	0	0		
Benzo(a)pyrene	339.3	6.67	333.3	0	102	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCV-29844	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:				Run ID: 5975Q_111104A			
Client ID: ZZZZZ	Batch ID: 29844	TestNo: 8270SIM	Analysis Date: 11/4/2011				SeqNo: 791510				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	302.7	6.67	333.3	0	90.8	70	130	0	0		
Benzo(g,h,i)perylene	300	6.67	333.3	0	90	70	130	0	0		
Benzo(k)fluoranthene	317.3	6.67	333.3	0	95.2	70	130	0	0		
Chrysene	317.3	6.67	333.3	0	95.2	70	130	0	0		
Dibenz(a,h)anthracene	322.7	6.67	333.3	0	96.8	70	130	0	0		
Fluoranthene	338.7	6.67	333.3	0	102	70	130	0	0		
Fluorene	338	6.67	333.3	0	101	70	130	0	0		
Indeno(1,2,3-cd)pyrene	338	6.67	333.3	0	101	70	130	0	0		
Naphthalene	320	6.67	333.3	0	96	70	130	0	0		
Phenanthrene	312.7	6.67	333.3	0	93.8	70	130	0	0		
Pyrene	326.7	6.67	333.3	0	98	70	130	0	0		

Sample ID: CCV-29844	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5973P_111109A						
Client ID: ZZZZZ	Batch ID: 29844	TestNo: 8270SIM		Analysis Date: 11/9/2011	SeqNo: 792140						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	66	6.67	66.67	0	99	70	130	0	0		
2-Methylnaphthalene	62	6.67	66.67	0	93	70	130	0	0		
Acenaphthene	64.67	6.67	66.67	0	97	70	130	0	0		
Acenaphthylene	68	6.67	66.67	0	102	70	130	0	0		
Anthracene	69.33	6.67	66.67	0	104	70	130	0	0		
Benz(a)anthracene	68.67	6.67	66.67	0	103	70	130	0	0		
Benzo(a)pyrene	78.67	6.67	66.67	0	118	70	130	0	0		
Benzo(b)fluoranthene	64.67	6.67	66.67	0	97	70	130	0	0		
Benzo(g,h,i)perylene	75.33	6.67	66.67	0	113	70	130	0	0		
Benzo(k)fluoranthene	71.33	6.67	66.67	0	107	70	130	0	0		
Chrysene	60	6.67	66.67	0	90	70	130	0	0		
Dibenz(a,h)anthracene	76.67	6.67	66.67	0	115	70	130	0	0		
Fluoranthene	66	6.67	66.67	0	99	70	130	0	0		
Fluorene	64.67	6.67	66.67	0	97	70	130	0	0		
Indeno(1,2,3-cd)pyrene	78.67	6.67	66.67	0	118	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCV-29844	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:				Run ID: 5973P_111109A			
Client ID: ZZZZZ	Batch ID: 29844	TestNo: 8270SIM	Analysis Date: 11/9/2011				SeqNo: 792140				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	64	6.67	66.67	0	96	70	130	0	0		
Phenanthrene	57.33	6.67	66.67	0	86	70	130	0	0		
Pyrene	69.33	6.67	66.67	0	104	70	130	0	0		

Sample ID: CCV-29916	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5973G_111109A						
Client ID: ZZZZZ	Batch ID: 29916	TestNo: 8270SIM		Analysis Date: 11/9/2011	SeqNo: 792201						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	66	6.67	66.67	0	99	70	130	0	0		
2-Methylnaphthalene	74	6.67	66.67	0	111	70	130	0	0		
Acenaphthene	63.33	6.67	66.67	0	95	70	130	0	0		
Acenaphthylene	76.67	6.67	66.67	0	115	70	130	0	0		
Anthracene	72	6.67	66.67	0	108	70	130	0	0		
Benz(a)anthracene	72.67	6.67	66.67	0	109	70	130	0	0		
Benzo(a)pyrene	74.67	6.67	66.67	0	112	70	130	0	0		
Benzo(b)fluoranthene	76.67	6.67	66.67	0	115	70	130	0	0		
Benzo(g,h,i)perylene	57.33	6.67	66.67	0	86	70	130	0	0		
Benzo(k)fluoranthene	70	6.67	66.67	0	105	70	130	0	0		
Chrysene	62	6.67	66.67	0	93	70	130	0	0		
Dibenz(a,h)anthracene	65.33	6.67	66.67	0	98	70	130	0	0		
Fluoranthene	76.67	6.67	66.67	0	115	70	130	0	0		
Fluorene	72.67	6.67	66.67	0	109	70	130	0	0		
Indeno(1,2,3-cd)pyrene	61.33	6.67	66.67	0	92	70	130	0	0		
Naphthalene	63.33	6.67	66.67	0	95	70	130	0	0		
Phenanthrene	69.33	6.67	66.67	0	104	70	130	0	0		
Pyrene	76.67	6.67	66.67	0	115	70	130	0	0		

Sample ID: CCV-29891	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:				Run ID: 5973G_111110A			
Client ID: ZZZZZ	Batch ID: 29891	TestNo: 8270SIM	Analysis Date: 11/9/2011				SeqNo: 792261				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCV-29891	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:				Run ID: 5973G_111110A			
Client ID: ZZZZZ	Batch ID: 29891	TestNo: 8270SIM		Analysis Date: 11/9/2011				SeqNo: 792261			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	68.67	6.67	66.67	0	103	70	130	0	0		
2-Methylnaphthalene	77.33	6.67	66.67	0	116	70	130	0	0		
Acenaphthene	64.67	6.67	66.67	0	97	70	130	0	0		
Acenaphthylene	78	6.67	66.67	0	117	70	130	0	0		
Anthracene	73.33	6.67	66.67	0	110	70	130	0	0		
Benz(a)anthracene	74	6.67	66.67	0	111	70	130	0	0		
Benzo(a)pyrene	72	6.67	66.67	0	108	70	130	0	0		
Benzo(b)fluoranthene	76	6.67	66.67	0	114	70	130	0	0		
Benzo(g,h,i)perylene	57.33	6.67	66.67	0	86	70	130	0	0		
Benzo(k)fluoranthene	62.67	6.67	66.67	0	94	70	130	0	0		
Chrysene	64	6.67	66.67	0	96	70	130	0	0		
Dibenz(a,h)anthracene	62.67	6.67	66.67	0	94	70	130	0	0		
Fluoranthene	79.33	6.67	66.67	0	119	70	130	0	0		
Fluorene	75.33	6.67	66.67	0	113	70	130	0	0		
Indeno(1,2,3-cd)pyrene	61.33	6.67	66.67	0	92	70	130	0	0		
Naphthalene	69.33	6.67	66.67	0	104	70	130	0	0		
Phenanthrene	68.67	6.67	66.67	0	103	70	130	0	0		
Pyrene	79.33	6.67	66.67	0	119	70	130	0	0		

Sample ID: CCV-29891	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5973G_111110A						
Client ID: ZZZZZ	Batch ID: 29891	TestNo: 8270SIM		Analysis Date: 11/10/2011	SeqNo: 792425						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	60.67	6.67	66.67	0	91	70	130	0	0		
2-Methylnaphthalene	74.67	6.67	66.67	0	112	70	130	0	0		
Acenaphthene	65.33	6.67	66.67	0	98	70	130	0	0		
Acenaphthylene	82	6.67	66.67	0	123	70	130	0	0		
Anthracene	72.67	6.67	66.67	0	109	70	130	0	0		
Benz(a)anthracene	72.67	6.67	66.67	0	109	70	130	0	0		
Benzo(a)pyrene	73.33	6.67	66.67	0	110	70	130	0	0		
Benzo(b)fluoranthene	79.33	6.67	66.67	0	119	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCV-29891	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:				Run ID: 5973G_111110A			
Client ID: ZZZZZ	Batch ID: 29891	TestNo: 8270SIM		Analysis Date: 11/10/2011				SeqNo: 792425			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(g,h,i)perylene	61.33	6.67	66.67	0	92	70	130	0	0		
Benzo(k)fluoranthene	64.67	6.67	66.67	0	97	70	130	0	0		
Chrysene	64	6.67	66.67	0	96	70	130	0	0		
Dibenz(a,h)anthracene	69.33	6.67	66.67	0	104	70	130	0	0		
Fluoranthene	73.33	6.67	66.67	0	110	70	130	0	0		
Fluorene	72.67	6.67	66.67	0	109	70	130	0	0		
Indeno(1,2,3-cd)pyrene	66.67	6.67	66.67	0	100	70	130	0	0		
Naphthalene	69.33	6.67	66.67	0	104	70	130	0	0		
Phenanthrene	70	6.67	66.67	0	105	70	130	0	0		
Pyrene	78.67	6.67	66.67	0	118	70	130	0	0		

Sample ID: CCV-29844	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:				Run ID: 5973P_111109A			
Client ID: ZZZZZ	Batch ID: 29844	TestNo: 8270SIM			Analysis Date: 11/10/2011				SeqNo: 792466		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	71.33	6.67	66.67	0	107	70	130	0	0		
2-Methylnaphthalene	69.33	6.67	66.67	0	104	70	130	0	0		
Acenaphthene	70.67	6.67	66.67	0	106	70	130	0	0		
Acenaphthylene	74.67	6.67	66.67	0	112	70	130	0	0		
Anthracene	73.33	6.67	66.67	0	110	70	130	0	0		
Benz(a)anthracene	78	6.67	66.67	0	117	70	130	0	0		
Benzo(b)fluoranthene	76	6.67	66.67	0	114	70	130	0	0		
Benzo(g,h,i)perylene	76.67	6.67	66.67	0	115	70	130	0	0		
Benzo(k)fluoranthene	73.33	6.67	66.67	0	110	70	130	0	0		
Chrysene	64.67	6.67	66.67	0	97	70	130	0	0		
Dibenz(a,h)anthracene	79.33	6.67	66.67	0	119	70	130	0	0		
Fluoranthene	78.67	6.67	66.67	0	118	70	130	0	0		
Fluorene	70	6.67	66.67	0	105	70	130	0	0		
Indeno(1,2,3-cd)pyrene	78	6.67	66.67	0	117	70	130	0	0		
Naphthalene	65.33	6.67	66.67	0	98	70	130	0	0		
Phenanthrene	67.33	6.67	66.67	0	101	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110243
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCV-29844	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5973P_111109A						
Client ID: ZZZZZ	Batch ID: 29844	TestNo: 8270SIM		Analysis Date: 11/10/2011	SeqNo: 792466						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Pyrene	76	6.67	66.67	0	114	70	130	0	0		
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Sample ID: CCV-29844	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:				Run ID: 5973P_111109A			
Client ID: ZZZZZ	Batch ID: 29844	TestNo: 8270SIM	Analysis Date: 11/10/2011				SeqNo: 792595				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzo(a)pyrene	168.7	6.67	133.3	0	126	70	130	0	0		
Benzo(b)fluoranthene	150	6.67	133.3	0	112	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

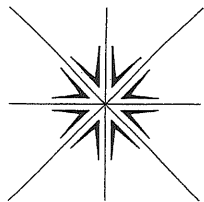
KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result great than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.

CHAIN OF CUSTODY RECORD

Page 1 of 2



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015

Phone: 503-607-1331

Fax: 503-607-1336

** All Samples not
each analyzed please
archive for potential
follow-up*

Contact Person/Project Manager Alan Hughes / Christina Johnson
Company MFA
Address _____

Phone _____ Fax _____

Project No. 0229.04.03 Project Name Port of C/W

Project Site Location OR _____ WA X Other _____

Invoice To _____ P.O. No. _____

Collected By:

Signature _____

Printed Meaghan Gallagher

Signature _____

Printed _____

Turn Around Time

☒ Normal 5-7 Business Days

☐ Rush _____

Specify

Rush Analyses Must Be Scheduled With The Lab In Advance

				No. of Containers	Analyses										For Laboratory Use						
Date	Time	Sample I.D.	Matrix		Dx (NWTPH)	PAH 8270 SIM	Metals (Total Metals PCRB)	PAH PCB	VOC 8210 B	Comp						Lab Job No.	Shipped Via	Air Bill No.	Temperature On Receipt _____ °C	Specialty Analytical Containers? Y / N	Specialty Analytical Trip Blanks? Y / N
10/27	10:15	TP-12-S-1.0	S	5	X		X		X												
	10:30	TP-12-S-3.0			HOLD																
	10:40	TP-12-S-5.0			HOLD																
	11:00	TP-13-S-1.0			X	X		X													
	11:15	TP-13-S-3.0			HOLD																
	11:30	TP-13-S-5.0			HOLD																
	11:40	TP-14-S-1.0			X	X		X													
	11:50	TP-14-S-3.0			HOLD																
	12:05	TP-14-S-5.0			HOLD																
	12:30	TP-15-S-1.0			X	X		X													
	12:40	TP-15-S-3.0			HOLD																
	12:55	TP-15-S-5.0			HOLD																

Relinquished By: <u>[Signature]</u>	Date	Time	Received By: <u>[Signature]</u>	Relinquished By: <u>[Signature]</u>	Date	Time
Company: <u>MFA</u>	10/27/11	17:08	Company: <u>Specialty</u>	Company: <u>Specialty</u>	10/28/11	12:10
Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt. Samples held beyond 60 days subject to storage fee(s)				Received For Lab By: <u>[Signature]</u>	Date	Time
					10/28/11	12:10

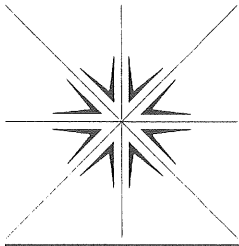
CHAIN OF CUSTODY

Lab # _____

COC 2 of 2

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: <u>MFA</u>				Project Mgr: <u>Alan Hughes / Christine Johnson</u>				Project Name: <u>Part of C/W</u>				Project # <u>0029.04.03</u>															
Address: _____						Phone: _____				Fax: _____				Email: <u>ahughes@maulposh.com</u>													
Sampled by: <u>Meaghan Gallagher</u>						ANALYSIS REQUEST																					
Site Location: OR <u>WA</u> Other: _____		LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-DX	NWTPH-GX	8260 VOC	8260 RBDM VOCs	8260 BTEX	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (8)	TCLP Metals (8)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, TL, V, Zn	TOTAL DISS (TCLP)	1200- COLS	1200-Z					
SAMPLE ID																											
1 TP-16-S-1.5			10/27	13:30	S	5	HOLD							(X)	(X)		(X)			(X)							
2 TP-16-S-4.0				13:45										(X)	(X)		(X)			(X)							
3 TP-16-S-10.0				14:25			HOLD							(X)	(X)		(X)										
4 TP-17-S-1.5				14:50			HOLD							(X)	(X)		(X)										
5 TP-17-S-4.0				15:05										(X)	(X)		(X)										
6 TP-17-S-10.0				15:23			HOLD							(X)	(X)		(X)										
7 TP-18-S-1.5				15:35			HOLD							(X)	(X)		(X)										
8 TP-18-S-4.0				15:55										(X)	(X)		(X)										
9 TP-18-S-10.0				16:05			HOLD																				
10 Comp (TP-16 & TP-17)																				(X)							
Normal Turn Around Time (TAT) = 7-10 Business Days						☒ YES ☐ NO		SPECIAL INSTRUCTIONS: <u>All samples not analyzed please archive or potential follow up</u>																			
TAT Requested (circle) 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____																											
SAMPLES ARE HELD FOR 30 DAYS																											
RELINQUISHED BY:						RECEIVED BY:						RELINQUISHED BY:						RECEIVED BY:									
Signature: <u>[Signature]</u> Date: <u>10/27</u>						Signature: <u>[Signature]</u> Date: _____						Signature: <u>[Signature]</u> Date: <u>10/28/11</u>						Signature: <u>Cindy Hillyard</u> Date: <u>10/28/11</u>									
Printed Name: <u>Meaghan Gallagher</u> Time: <u>17:08</u>						Printed Name: <u>Jorge Szymanski</u> Time: <u>17:55</u>						Printed Name: <u>Jorge Szymanski</u> Time: <u>12:10</u>						Printed Name: <u>Cindy Hillyard</u> Time: <u>12:10</u>									
Company: <u>MFA</u>						Company: _____						Company: <u>Specialty</u>						Company: _____									



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
(503) 607-1331
Fax (503) 607-1336

November 11, 2011

Alan Hughes
Maul, Foster & Alongi
400 East Mill Plain Blvd
Suite 400
Vancouver, WA 98660

TEL: (360) 694-2691

FAX: (360) 906-1958

RE: Port of C/W / 0229.04.03

Dear Alan Hughes:

Order No.: 1110255

Specialty Analytical received 33 samples on 10/31/2011 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,


Cindy Hillyard
Project Manager


Technical Review

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-01

Client Sample ID: TP-19-S-1.5
Collection Date: 10/28/2011 8:15:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
		E6010				Analyst: cmt
Arsenic	3.90	2.24		mg/Kg-dry	1	11/3/2011 5:26:40 PM
Barium	171	1.12		mg/Kg-dry	1	11/3/2011 5:26:40 PM
Cadmium	0.280	0.112		mg/Kg-dry	1	11/3/2011 5:26:40 PM
Chromium	18.8	0.560		mg/Kg-dry	1	11/3/2011 5:26:40 PM
Lead	143	2.24		mg/Kg-dry	1	11/3/2011 5:26:40 PM
Selenium	ND	2.24		mg/Kg-dry	1	11/3/2011 5:26:40 PM
Silver	ND	2.24		mg/Kg-dry	1	11/4/2011 12:27:03 PM
MERCURY, TOTAL						
		SW7471				Analyst: zau
Mercury	0.376	0.0187		mg/Kg-dry	1	11/8/2011
LOW LEVEL PAH BY GC/MS						
		8270SIM				Analyst: bda
1-Methylnaphthalene	ND	7.47		µg/Kg-dry	1	11/10/2011 11:28:00 AM
2-Methylnaphthalene	ND	7.47		µg/Kg-dry	1	11/10/2011 11:28:00 AM
Acenaphthene	ND	7.47		µg/Kg-dry	1	11/10/2011 11:28:00 AM
Acenaphthylene	12.7	7.47		µg/Kg-dry	1	11/10/2011 11:28:00 AM
Anthracene	20.9	7.47		µg/Kg-dry	1	11/10/2011 11:28:00 AM
Benz(a)anthracene	29.9	7.47		µg/Kg-dry	1	11/10/2011 11:28:00 AM
Benzo(a)pyrene	33.6	7.47		µg/Kg-dry	1	11/10/2011 11:28:00 AM
Benzo(b)fluoranthene	56.7	7.47		µg/Kg-dry	1	11/10/2011 11:28:00 AM
Benzo(g,h,i)perylene	29.9	7.47		µg/Kg-dry	1	11/10/2011 11:28:00 AM
Benzo(k)fluoranthene	13.4	7.47		µg/Kg-dry	1	11/10/2011 11:28:00 AM
Chrysene	32.1	7.47		µg/Kg-dry	1	11/10/2011 11:28:00 AM
Dibenz(a,h)anthracene	ND	7.47		µg/Kg-dry	1	11/10/2011 11:28:00 AM
Fluoranthene	51.5	7.47		µg/Kg-dry	1	11/10/2011 11:28:00 AM
Fluorene	ND	7.47		µg/Kg-dry	1	11/10/2011 11:28:00 AM
Indeno(1,2,3-cd)pyrene	23.1	7.47		µg/Kg-dry	1	11/10/2011 11:28:00 AM
Naphthalene	11.9	7.47		µg/Kg-dry	1	11/10/2011 11:28:00 AM
Phenanthrene	29.9	7.47		µg/Kg-dry	1	11/10/2011 11:28:00 AM
Pyrene	76.1	7.47		µg/Kg-dry	1	11/10/2011 11:28:00 AM
Surr: 2-Fluorobiphenyl	71.1	42.6-128		%REC	1	11/10/2011 11:28:00 AM
Surr: Nitrobenzene-d5	68.5	21.7-155		%REC	1	11/10/2011 11:28:00 AM
Surr: p-Terphenyl-d14	92.4	44.9-155		%REC	1	11/10/2011 11:28:00 AM
PCB'S IN SOIL						
		SW8082				Analyst: jrp
Aroclor 1016	ND	0.373		µg/Kg-dry	1	11/4/2011
Aroclor 1221	ND	0.373		µg/Kg-dry	1	11/4/2011
Aroclor 1232	ND	0.373		µg/Kg-dry	1	11/4/2011
Aroclor 1242	ND	0.373		µg/Kg-dry	1	11/4/2011
Aroclor 1248	ND	0.373		µg/Kg-dry	1	11/4/2011
Aroclor 1254	213	1.86		µg/Kg-dry	5	11/8/2011
Aroclor 1260	444	1.86		µg/Kg-dry	5	11/8/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-01

Client Sample ID: TP-19-S-1.5
Collection Date: 10/28/2011 8:15:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082		Analyst: jrp		
Aroclor 1262	ND	0.373		µg/Kg-dry	1	11/4/2011
Aroclor 1268	ND	0.373		µg/Kg-dry	1	11/4/2011
Surr: Decachlorobiphenyl	114	56.5-130		%REC	1	11/4/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-02

Client Sample ID: TP-19-S-3.5
Collection Date: 10/28/2011 8:25:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
		E6010				Analyst: cmt
Arsenic	3.44	2.05		mg/Kg-dry	1	11/2/2011 11:59:30 AM
Barium	123	1.02		mg/Kg-dry	1	11/2/2011 11:59:30 AM
Cadmium	0.225	0.102		mg/Kg-dry	1	11/2/2011 11:59:30 AM
Chromium	16.0	0.511		mg/Kg-dry	1	11/2/2011 11:59:30 AM
Lead	212	2.05		mg/Kg-dry	1	11/2/2011 11:59:30 AM
Selenium	ND	2.05		mg/Kg-dry	1	11/2/2011 11:59:30 AM
Silver	ND	2.05		mg/Kg-dry	1	11/2/2011 11:59:30 AM
MERCURY, TOTAL						
		SW7471				Analyst: zau
Mercury	0.856	0.0782		mg/Kg-dry	5	11/3/2011
LOW LEVEL PAH BY GC/MS						
		8270SIM				Analyst: bda
1-Methylnaphthalene	ND	7.91		µg/Kg-dry	1	11/8/2011 9:02:00 PM
2-Methylnaphthalene	ND	7.91		µg/Kg-dry	1	11/8/2011 9:02:00 PM
Acenaphthene	ND	7.91		µg/Kg-dry	1	11/8/2011 9:02:00 PM
Acenaphthylene	17.4	7.91		µg/Kg-dry	1	11/8/2011 9:02:00 PM
Anthracene	19.8	7.91		µg/Kg-dry	1	11/8/2011 9:02:00 PM
Benz(a)anthracene	49.0	7.91		µg/Kg-dry	1	11/8/2011 9:02:00 PM
Benzo(a)pyrene	60.9	7.91		µg/Kg-dry	1	11/8/2011 9:02:00 PM
Benzo(b)fluoranthene	85.4	7.91		µg/Kg-dry	1	11/8/2011 9:02:00 PM
Benzo(g,h,i)perylene	56.1	7.91		µg/Kg-dry	1	11/8/2011 9:02:00 PM
Benzo(k)fluoranthene	18.2	7.91		µg/Kg-dry	1	11/8/2011 9:02:00 PM
Chrysene	43.5	7.91		µg/Kg-dry	1	11/8/2011 9:02:00 PM
Dibenz(a,h)anthracene	16.6	7.91		µg/Kg-dry	1	11/8/2011 9:02:00 PM
Fluoranthene	69.6	7.91		µg/Kg-dry	1	11/8/2011 9:02:00 PM
Fluorene	ND	7.91		µg/Kg-dry	1	11/8/2011 9:02:00 PM
Indeno(1,2,3-cd)pyrene	43.5	7.91		µg/Kg-dry	1	11/8/2011 9:02:00 PM
Naphthalene	15.0	7.91		µg/Kg-dry	1	11/8/2011 9:02:00 PM
Phenanthrene	31.6	7.91		µg/Kg-dry	1	11/8/2011 9:02:00 PM
Pyrene	99.6	7.91		µg/Kg-dry	1	11/8/2011 9:02:00 PM
Surr: 2-Fluorobiphenyl	64.8	42.6-128		%REC	1	11/8/2011 9:02:00 PM
Surr: Nitrobenzene-d5	62.6	21.7-155		%REC	1	11/8/2011 9:02:00 PM
Surr: p-Terphenyl-d14	76.4	44.9-155		%REC	1	11/8/2011 9:02:00 PM
PCB'S IN SOIL						
		SW8082				Analyst: jrj
Aroclor 1016	ND	0.395		µg/Kg-dry	1	11/2/2011
Aroclor 1221	ND	0.395		µg/Kg-dry	1	11/2/2011
Aroclor 1232	ND	0.395		µg/Kg-dry	1	11/2/2011
Aroclor 1242	ND	0.395		µg/Kg-dry	1	11/2/2011
Aroclor 1248	ND	0.395		µg/Kg-dry	1	11/2/2011
Aroclor 1254	ND	0.395		µg/Kg-dry	1	11/2/2011
Aroclor 1260	546	1.98		µg/Kg-dry	5	11/2/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-02

Client Sample ID: TP-19-S-3.5
Collection Date: 10/28/2011 8:25:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082		Analyst: jrp		
Aroclor 1262	ND	0.395		µg/Kg-dry	1	11/2/2011
Aroclor 1268	ND	0.395		µg/Kg-dry	1	11/2/2011
Surr: Decachlorobiphenyl	103	56.5-130		%REC	1	11/2/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-03

Client Sample ID: TP-19-S-6.0
Collection Date: 10/28/2011 8:50:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
		E6010				Analyst: cmt
Arsenic	ND	2.45		mg/Kg-dry	1	11/3/2011 5:31:40 PM
Barium	239	1.23		mg/Kg-dry	1	11/3/2011 5:31:40 PM
Cadmium	ND	0.123		mg/Kg-dry	1	11/3/2011 5:31:40 PM
Chromium	25.2	0.613		mg/Kg-dry	1	11/3/2011 5:31:40 PM
Lead	10.5	2.45		mg/Kg-dry	1	11/3/2011 5:31:40 PM
Selenium	ND	2.45		mg/Kg-dry	1	11/3/2011 5:31:40 PM
Silver	ND	2.45		mg/Kg-dry	1	11/4/2011 12:32:01 PM
MERCURY, TOTAL						
		SW7471				Analyst: zau
Mercury	0.0338	0.0195		mg/Kg-dry	1	11/3/2011
LOW LEVEL PAH BY GC/MS						
		8270SIM				Analyst: bda
1-Methylnaphthalene	ND	8.83		µg/Kg-dry	1	11/10/2011 9:43:00 AM
2-Methylnaphthalene	ND	8.83		µg/Kg-dry	1	11/10/2011 9:43:00 AM
Acenaphthene	ND	8.83		µg/Kg-dry	1	11/10/2011 9:43:00 AM
Acenaphthylene	ND	8.83		µg/Kg-dry	1	11/10/2011 9:43:00 AM
Anthracene	ND	8.83		µg/Kg-dry	1	11/10/2011 9:43:00 AM
Benz(a)anthracene	ND	8.83		µg/Kg-dry	1	11/10/2011 9:43:00 AM
Benzo(a)pyrene	ND	8.83		µg/Kg-dry	1	11/10/2011 9:43:00 AM
Benzo(b)fluoranthene	ND	8.83		µg/Kg-dry	1	11/10/2011 9:43:00 AM
Benzo(g,h,i)perylene	ND	8.83		µg/Kg-dry	1	11/10/2011 9:43:00 AM
Benzo(k)fluoranthene	ND	8.83		µg/Kg-dry	1	11/10/2011 9:43:00 AM
Chrysene	ND	8.83		µg/Kg-dry	1	11/10/2011 9:43:00 AM
Dibenz(a,h)anthracene	ND	8.83		µg/Kg-dry	1	11/10/2011 9:43:00 AM
Fluoranthene	ND	8.83		µg/Kg-dry	1	11/10/2011 9:43:00 AM
Fluorene	ND	8.83		µg/Kg-dry	1	11/10/2011 9:43:00 AM
Indeno(1,2,3-cd)pyrene	ND	8.83		µg/Kg-dry	1	11/10/2011 9:43:00 AM
Naphthalene	ND	8.83		µg/Kg-dry	1	11/10/2011 9:43:00 AM
Phenanthrene	ND	8.83		µg/Kg-dry	1	11/10/2011 9:43:00 AM
Pyrene	ND	8.83		µg/Kg-dry	1	11/10/2011 9:43:00 AM
Surr: 2-Fluorobiphenyl	34.3	42.6-128	S,MI	%REC	1	11/10/2011 9:43:00 AM
Surr: Nitrobenzene-d5	42.2	21.7-155		%REC	1	11/10/2011 9:43:00 AM
Surr: p-Terphenyl-d14	87.3	44.9-155		%REC	1	11/10/2011 9:43:00 AM
PCB'S IN SOIL						
		SW8082				Analyst: jrj
Aroclor 1016	ND	0.441		µg/Kg-dry	1	11/4/2011
Aroclor 1221	ND	0.441		µg/Kg-dry	1	11/4/2011
Aroclor 1232	ND	0.441		µg/Kg-dry	1	11/4/2011
Aroclor 1242	ND	0.441		µg/Kg-dry	1	11/4/2011
Aroclor 1248	ND	0.441		µg/Kg-dry	1	11/4/2011
Aroclor 1254	ND	0.441		µg/Kg-dry	1	11/4/2011
Aroclor 1260	16.8	0.441		µg/Kg-dry	1	11/4/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-03

Client Sample ID: TP-19-S-6.0
Collection Date: 10/28/2011 8:50:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082				Analyst: jrp
Aroclor 1262	ND	0.441		µg/Kg-dry	1	11/4/2011
Aroclor 1268	ND	0.441		µg/Kg-dry	1	11/4/2011
Surr: Decachlorobiphenyl	108	56.5-130		%REC	1	11/4/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-04

Client Sample ID: TP-19-S-10.0
Collection Date: 10/28/2011 9:00:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-05

Client Sample ID: TP-20-S-1.5
Collection Date: 10/28/2011 9:20:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-06

Client Sample ID: TP-20-S-4.0
Collection Date: 10/28/2011 9:30:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
		E6010				Analyst: cmt
Arsenic	ND	2.16		mg/Kg-dry	1	11/2/2011 12:04:28 PM
Barium	149	1.08		mg/Kg-dry	1	11/2/2011 12:04:28 PM
Cadmium	0.237	0.108		mg/Kg-dry	1	11/2/2011 12:04:28 PM
Chromium	18.2	0.540		mg/Kg-dry	1	11/2/2011 12:04:28 PM
Lead	178	2.16		mg/Kg-dry	1	11/2/2011 12:04:28 PM
Selenium	ND	2.16		mg/Kg-dry	1	11/2/2011 12:04:28 PM
Silver	ND	2.16		mg/Kg-dry	1	11/2/2011 12:04:28 PM
MERCURY, TOTAL						
		SW7471				Analyst: zau
Mercury	0.771	0.0740		mg/Kg-dry	5	11/3/2011
LOW LEVEL PAH BY GC/MS						
		8270SIM				Analyst: bda
1-Methylnaphthalene	ND	7.49		µg/Kg-dry	1	11/8/2011 9:54:00 PM
2-Methylnaphthalene	9.73	7.49		µg/Kg-dry	1	11/8/2011 9:54:00 PM
Acenaphthene	62.1	7.49		µg/Kg-dry	1	11/8/2011 9:54:00 PM
Acenaphthylene	18.0	7.49		µg/Kg-dry	1	11/8/2011 9:54:00 PM
Anthracene	54.6	7.49		µg/Kg-dry	1	11/8/2011 9:54:00 PM
Benz(a)anthracene	65.8	7.49		µg/Kg-dry	1	11/8/2011 9:54:00 PM
Benzo(a)pyrene	68.8	7.49		µg/Kg-dry	1	11/8/2011 9:54:00 PM
Benzo(b)fluoranthene	98.0	7.49		µg/Kg-dry	1	11/8/2011 9:54:00 PM
Benzo(g,h,i)perylene	56.9	7.49		µg/Kg-dry	1	11/8/2011 9:54:00 PM
Benzo(k)fluoranthene	19.5	7.49		µg/Kg-dry	1	11/8/2011 9:54:00 PM
Chrysene	61.4	7.49		µg/Kg-dry	1	11/8/2011 9:54:00 PM
Dibenz(a,h)anthracene	25.4	7.49		µg/Kg-dry	1	11/8/2011 9:54:00 PM
Fluoranthene	130	7.49		µg/Kg-dry	1	11/8/2011 9:54:00 PM
Fluorene	ND	7.49		µg/Kg-dry	1	11/8/2011 9:54:00 PM
Indeno(1,2,3-cd)pyrene	41.2	7.49		µg/Kg-dry	1	11/8/2011 9:54:00 PM
Naphthalene	19.5	7.49		µg/Kg-dry	1	11/8/2011 9:54:00 PM
Phenanthrene	50.9	7.49		µg/Kg-dry	1	11/8/2011 9:54:00 PM
Pyrene	207	7.49		µg/Kg-dry	1	11/8/2011 9:54:00 PM
Surr: 2-Fluorobiphenyl	70.2	42.6-128		%REC	1	11/8/2011 9:54:00 PM
Surr: Nitrobenzene-d5	68.2	21.7-155		%REC	1	11/8/2011 9:54:00 PM
Surr: p-Terphenyl-d14	77.7	44.9-155		%REC	1	11/8/2011 9:54:00 PM
PCB'S IN SOIL						
		SW8082				Analyst: jrp
Aroclor 1016	ND	0.374		µg/Kg-dry	1	11/2/2011
Aroclor 1221	ND	0.374		µg/Kg-dry	1	11/2/2011
Aroclor 1232	ND	0.374		µg/Kg-dry	1	11/2/2011
Aroclor 1242	ND	0.374		µg/Kg-dry	1	11/2/2011
Aroclor 1248	ND	0.374		µg/Kg-dry	1	11/2/2011
Aroclor 1254	ND	0.374		µg/Kg-dry	1	11/2/2011
Aroclor 1260	1170	3.74		µg/Kg-dry	10	11/2/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-06

Client Sample ID: TP-20-S-4.0
Collection Date: 10/28/2011 9:30:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082		Analyst: jrp		
Aroclor 1262	ND	0.374		µg/Kg-dry	1	11/2/2011
Aroclor 1268	ND	0.374		µg/Kg-dry	1	11/2/2011
Surr: Decachlorobiphenyl	116	56.5-130		%REC	1	11/2/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-07

Client Sample ID: TP-20-S-10.0
Collection Date: 10/28/2011 9:45:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082		Analyst: jrp		
Aroclor 1016	ND	0.391		µg/Kg-dry	1	11/10/2011
Aroclor 1221	ND	0.391		µg/Kg-dry	1	11/10/2011
Aroclor 1232	ND	0.391		µg/Kg-dry	1	11/10/2011
Aroclor 1242	ND	0.391		µg/Kg-dry	1	11/10/2011
Aroclor 1248	ND	0.391		µg/Kg-dry	1	11/10/2011
Aroclor 1254	ND	0.391		µg/Kg-dry	1	11/10/2011
Aroclor 1260	1.18	0.391		µg/Kg-dry	1	11/10/2011
Aroclor 1262	ND	0.391		µg/Kg-dry	1	11/10/2011
Aroclor 1268	ND	0.391		µg/Kg-dry	1	11/10/2011
Surr: Decachlorobiphenyl	72.5	56.5-130		%REC	1	11/10/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-08

Client Sample ID: TP-21-S-1.5
Collection Date: 10/28/2011 10:00:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-09

Client Sample ID: TP-21-S-4.0
Collection Date: 10/28/2011 10:10:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
		E6010				Analyst: cmt
Arsenic	ND	2.09		mg/Kg-dry	1	11/2/2011 12:09:26 PM
Barium	75.6	1.04		mg/Kg-dry	1	11/2/2011 12:09:26 PM
Cadmium	ND	0.104		mg/Kg-dry	1	11/2/2011 12:09:26 PM
Chromium	11.0	0.521		mg/Kg-dry	1	11/2/2011 12:09:26 PM
Lead	91.4	2.09		mg/Kg-dry	1	11/2/2011 12:09:26 PM
Selenium	ND	2.09		mg/Kg-dry	1	11/2/2011 12:09:26 PM
Silver	2.44	2.09		mg/Kg-dry	1	11/2/2011 12:09:26 PM
MERCURY, TOTAL						
		SW7471				Analyst: zau
Mercury	0.825	0.0171		mg/Kg-dry	1	11/3/2011
LOW LEVEL PAH BY GC/MS						
		8270SIM				Analyst: bda
1-Methylnaphthalene	ND	7.51		µg/Kg-dry	1	11/8/2011 10:46:00 PM
2-Methylnaphthalene	10.5	7.51		µg/Kg-dry	1	11/8/2011 10:46:00 PM
Acenaphthene	ND	7.51		µg/Kg-dry	1	11/8/2011 10:46:00 PM
Acenaphthylene	19.5	7.51		µg/Kg-dry	1	11/8/2011 10:46:00 PM
Anthracene	28.5	7.51		µg/Kg-dry	1	11/8/2011 10:46:00 PM
Benz(a)anthracene	45.8	7.51		µg/Kg-dry	1	11/8/2011 10:46:00 PM
Benzo(a)pyrene	63.8	7.51		µg/Kg-dry	1	11/8/2011 10:46:00 PM
Benzo(b)fluoranthene	81.8	7.51		µg/Kg-dry	1	11/8/2011 10:46:00 PM
Benzo(g,h,i)perylene	63.1	7.51		µg/Kg-dry	1	11/8/2011 10:46:00 PM
Benzo(k)fluoranthene	20.3	7.51		µg/Kg-dry	1	11/8/2011 10:46:00 PM
Chrysene	47.3	7.51		µg/Kg-dry	1	11/8/2011 10:46:00 PM
Dibenz(a,h)anthracene	27.0	7.51		µg/Kg-dry	1	11/8/2011 10:46:00 PM
Fluoranthene	68.3	7.51		µg/Kg-dry	1	11/8/2011 10:46:00 PM
Fluorene	ND	7.51		µg/Kg-dry	1	11/8/2011 10:46:00 PM
Indeno(1,2,3-cd)pyrene	45.0	7.51		µg/Kg-dry	1	11/8/2011 10:46:00 PM
Naphthalene	18.0	7.51		µg/Kg-dry	1	11/8/2011 10:46:00 PM
Phenanthrene	45.0	7.51		µg/Kg-dry	1	11/8/2011 10:46:00 PM
Pyrene	91.6	7.51		µg/Kg-dry	1	11/8/2011 10:46:00 PM
Surr: 2-Fluorobiphenyl	82.5	42.6-128		%REC	1	11/8/2011 10:46:00 PM
Surr: Nitrobenzene-d5	68.3	21.7-155		%REC	1	11/8/2011 10:46:00 PM
Surr: p-Terphenyl-d14	89.8	44.9-155		%REC	1	11/8/2011 10:46:00 PM
PCB'S IN SOIL						
		SW8082				Analyst: jrp
Aroclor 1016	ND	0.375		µg/Kg-dry	1	11/2/2011
Aroclor 1221	ND	0.375		µg/Kg-dry	1	11/2/2011
Aroclor 1232	ND	0.375		µg/Kg-dry	1	11/2/2011
Aroclor 1242	ND	0.375		µg/Kg-dry	1	11/2/2011
Aroclor 1248	ND	0.375		µg/Kg-dry	1	11/2/2011
Aroclor 1254	465	1.87		µg/Kg-dry	5	11/2/2011
Aroclor 1260	387	1.87		µg/Kg-dry	5	11/2/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-09

Client Sample ID: TP-21-S-4.0
Collection Date: 10/28/2011 10:10:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082				Analyst: jrp
Aroclor 1262	ND	0.375		µg/Kg-dry	1	11/2/2011
Aroclor 1268	ND	0.375		µg/Kg-dry	1	11/2/2011
Surr: Decachlorobiphenyl	142	56.5-130	S	%REC	1	11/2/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-10

Client Sample ID: TP-21-S-10.0
Collection Date: 10/28/2011 10:21:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-11

Client Sample ID: TP-22-S-1.5
Collection Date: 10/28/2011 10:40:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
	E6010				Analyst: cmt	
Arsenic	2.61	2.17		mg/Kg-dry	1	11/3/2011 5:41:41 PM
Barium	126	1.09		mg/Kg-dry	1	11/3/2011 5:41:41 PM
Cadmium	0.163	0.109		mg/Kg-dry	1	11/3/2011 5:41:41 PM
Chromium	15.4	0.543		mg/Kg-dry	1	11/3/2011 5:41:41 PM
Lead	12.2	2.17		mg/Kg-dry	1	11/3/2011 5:41:41 PM
Selenium	ND	2.17		mg/Kg-dry	1	11/3/2011 5:41:41 PM
Silver	ND	2.17		mg/Kg-dry	1	11/4/2011 12:37:00 PM
MERCURY, TOTAL						
	SW7471				Analyst: zau	
Mercury	0.284	0.0150		mg/Kg-dry	1	11/8/2011
LOW LEVEL PAH BY GC/MS						
	8270SIM				Analyst: bda	
1-Methylnaphthalene	ND	7.39		µg/Kg-dry	1	11/10/2011 11:55:00 AM
2-Methylnaphthalene	15.5	7.39		µg/Kg-dry	1	11/10/2011 11:55:00 AM
Acenaphthene	ND	7.39		µg/Kg-dry	1	11/10/2011 11:55:00 AM
Acenaphthylene	39.1	7.39		µg/Kg-dry	1	11/10/2011 11:55:00 AM
Anthracene	62.8	7.39		µg/Kg-dry	1	11/10/2011 11:55:00 AM
Benz(a)anthracene	28.8	7.39		µg/Kg-dry	1	11/10/2011 11:55:00 AM
Benzo(a)pyrene	45.0	7.39		µg/Kg-dry	1	11/10/2011 11:55:00 AM
Benzo(b)fluoranthene	70.9	7.39		µg/Kg-dry	1	11/10/2011 11:55:00 AM
Benzo(g,h,i)perylene	62.0	7.39		µg/Kg-dry	1	11/10/2011 11:55:00 AM
Benzo(k)fluoranthene	9.60	7.39		µg/Kg-dry	1	11/10/2011 11:55:00 AM
Chrysene	23.6	7.39		µg/Kg-dry	1	11/10/2011 11:55:00 AM
Dibenz(a,h)anthracene	ND	7.39		µg/Kg-dry	1	11/10/2011 11:55:00 AM
Fluoranthene	47.2	7.39		µg/Kg-dry	1	11/10/2011 11:55:00 AM
Fluorene	ND	7.39		µg/Kg-dry	1	11/10/2011 11:55:00 AM
Indeno(1,2,3-cd)pyrene	26.6	7.39		µg/Kg-dry	1	11/10/2011 11:55:00 AM
Naphthalene	14.8	7.39		µg/Kg-dry	1	11/10/2011 11:55:00 AM
Phenanthrene	36.9	7.39		µg/Kg-dry	1	11/10/2011 11:55:00 AM
Pyrene	80.5	7.39		µg/Kg-dry	1	11/10/2011 11:55:00 AM
Surr: 2-Fluorobiphenyl	81.6	42.6-128		%REC	1	11/10/2011 11:55:00 AM
Surr: Nitrobenzene-d5	78.1	21.7-155		%REC	1	11/10/2011 11:55:00 AM
Surr: p-Terphenyl-d14	103	44.9-155		%REC	1	11/10/2011 11:55:00 AM
PCB'S IN SOIL						
	SW8082				Analyst: jrp	
Aroclor 1016	ND	0.369		µg/Kg-dry	1	11/4/2011
Aroclor 1221	ND	0.369		µg/Kg-dry	1	11/4/2011
Aroclor 1232	ND	0.369		µg/Kg-dry	1	11/4/2011
Aroclor 1242	ND	0.369		µg/Kg-dry	1	11/4/2011
Aroclor 1248	ND	0.369		µg/Kg-dry	1	11/4/2011
Aroclor 1254	120	0.369		µg/Kg-dry	1	11/4/2011
Aroclor 1260	202	0.369		µg/Kg-dry	1	11/4/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-11

Client Sample ID: TP-22-S-1.5
Collection Date: 10/28/2011 10:40:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082		Analyst: jrp		
Aroclor 1262	ND	0.369		µg/Kg-dry	1	11/4/2011
Aroclor 1268	ND	0.369		µg/Kg-dry	1	11/4/2011
Surr: Decachlorobiphenyl	99.6	56.5-130		%REC	1	11/4/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-12

Client Sample ID: TP-22-S-3.0
Collection Date: 10/28/2011 10:45:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
		E6010				Analyst: cmt
Arsenic	ND	2.05		mg/Kg-dry	1	11/2/2011 12:14:24 PM
Barium	33.5	1.02		mg/Kg-dry	1	11/2/2011 12:14:24 PM
Cadmium	ND	0.102		mg/Kg-dry	1	11/2/2011 12:14:24 PM
Chromium	7.39	0.512		mg/Kg-dry	1	11/2/2011 12:14:24 PM
Lead	40.3	2.05		mg/Kg-dry	1	11/2/2011 12:14:24 PM
Selenium	ND	2.05		mg/Kg-dry	1	11/2/2011 12:14:24 PM
Silver	ND	2.05		mg/Kg-dry	1	11/2/2011 12:14:24 PM
MERCURY, TOTAL						
		SW7471				Analyst: zau
Mercury	0.211	0.0173		mg/Kg-dry	1	11/3/2011
LOW LEVEL PAH BY GC/MS						
		8270SIM				Analyst: bda
1-Methylnaphthalene	ND	7.37		µg/Kg-dry	1	11/8/2011 11:38:00 PM
2-Methylnaphthalene	17.7	7.37		µg/Kg-dry	1	11/8/2011 11:38:00 PM
Acenaphthene	ND	7.37		µg/Kg-dry	1	11/8/2011 11:38:00 PM
Acenaphthylene	31.7	7.37		µg/Kg-dry	1	11/8/2011 11:38:00 PM
Anthracene	45.7	7.37		µg/Kg-dry	1	11/8/2011 11:38:00 PM
Benz(a)anthracene	30.9	7.37		µg/Kg-dry	1	11/8/2011 11:38:00 PM
Benzo(a)pyrene	50.1	7.37		µg/Kg-dry	1	11/8/2011 11:38:00 PM
Benzo(b)fluoranthene	67.8	7.37		µg/Kg-dry	1	11/8/2011 11:38:00 PM
Benzo(g,h,i)perylene	63.4	7.37		µg/Kg-dry	1	11/8/2011 11:38:00 PM
Benzo(k)fluoranthene	24.3	7.37		µg/Kg-dry	1	11/8/2011 11:38:00 PM
Chrysene	33.1	7.37		µg/Kg-dry	1	11/8/2011 11:38:00 PM
Dibenz(a,h)anthracene	25.8	7.37		µg/Kg-dry	1	11/8/2011 11:38:00 PM
Fluoranthene	50.1	7.37		µg/Kg-dry	1	11/8/2011 11:38:00 PM
Fluorene	ND	7.37		µg/Kg-dry	1	11/8/2011 11:38:00 PM
Indeno(1,2,3-cd)pyrene	24.3	7.37		µg/Kg-dry	1	11/8/2011 11:38:00 PM
Naphthalene	15.5	7.37		µg/Kg-dry	1	11/8/2011 11:38:00 PM
Phenanthrene	36.1	7.37		µg/Kg-dry	1	11/8/2011 11:38:00 PM
Pyrene	88.4	7.37		µg/Kg-dry	1	11/8/2011 11:38:00 PM
Surr: 2-Fluorobiphenyl	85.1	42.6-128		%REC	1	11/8/2011 11:38:00 PM
Surr: Nitrobenzene-d5	71.7	21.7-155		%REC	1	11/8/2011 11:38:00 PM
Surr: p-Terphenyl-d14	97.3	44.9-155		%REC	1	11/8/2011 11:38:00 PM
PCB'S IN SOIL						
		SW8082				Analyst: jrj
Aroclor 1016	ND	0.368		µg/Kg-dry	1	11/2/2011
Aroclor 1221	ND	0.368		µg/Kg-dry	1	11/2/2011
Aroclor 1232	ND	0.368		µg/Kg-dry	1	11/2/2011
Aroclor 1242	ND	0.368		µg/Kg-dry	1	11/2/2011
Aroclor 1248	ND	0.368		µg/Kg-dry	1	11/2/2011
Aroclor 1254	153	0.368		µg/Kg-dry	1	11/2/2011
Aroclor 1260	187	0.368		µg/Kg-dry	1	11/2/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-12

Client Sample ID: TP-22-S-3.0
Collection Date: 10/28/2011 10:45:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082				Analyst: jrp
Aroclor 1262	ND	0.368		µg/Kg-dry	1	11/2/2011
Aroclor 1268	ND	0.368		µg/Kg-dry	1	11/2/2011
Surr: Decachlorobiphenyl	96.1	56.5-130		%REC	1	11/2/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-13

Client Sample ID: TP-22-S-10.0
Collection Date: 10/28/2011 11:20:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
		E6010				Analyst: cmt
Arsenic	ND	2.62		mg/Kg-dry	1	11/3/2011 5:36:41 PM
Barium	141	1.31		mg/Kg-dry	1	11/3/2011 5:36:41 PM
Cadmium	0.183	0.131		mg/Kg-dry	1	11/3/2011 5:36:41 PM
Chromium	15.0	0.655		mg/Kg-dry	1	11/3/2011 5:36:41 PM
Lead	94.8	2.62		mg/Kg-dry	1	11/3/2011 5:36:41 PM
Selenium	ND	2.62		mg/Kg-dry	1	11/3/2011 5:36:41 PM
Silver	ND	2.62		mg/Kg-dry	1	11/4/2011 12:41:58 PM
MERCURY, TOTAL						
		SW7471				Analyst: zau
Mercury	0.0433	0.0220		mg/Kg-dry	1	11/3/2011
LOW LEVEL PAH BY GC/MS						
		8270SIM				Analyst: bda
1-Methylnaphthalene	ND	9.09		µg/Kg-dry	1	11/10/2011 10:35:00 AM
2-Methylnaphthalene	ND	9.09		µg/Kg-dry	1	11/10/2011 10:35:00 AM
Acenaphthene	ND	9.09		µg/Kg-dry	1	11/10/2011 10:35:00 AM
Acenaphthylene	ND	9.09		µg/Kg-dry	1	11/10/2011 10:35:00 AM
Anthracene	ND	9.09		µg/Kg-dry	1	11/10/2011 10:35:00 AM
Benz(a)anthracene	ND	9.09		µg/Kg-dry	1	11/10/2011 10:35:00 AM
Benzo(a)pyrene	ND	9.09		µg/Kg-dry	1	11/10/2011 10:35:00 AM
Benzo(b)fluoranthene	13.6	9.09		µg/Kg-dry	1	11/10/2011 10:35:00 AM
Benzo(g,h,i)perylene	ND	9.09		µg/Kg-dry	1	11/10/2011 10:35:00 AM
Benzo(k)fluoranthene	ND	9.09		µg/Kg-dry	1	11/10/2011 10:35:00 AM
Chrysene	ND	9.09		µg/Kg-dry	1	11/10/2011 10:35:00 AM
Dibenz(a,h)anthracene	ND	9.09		µg/Kg-dry	1	11/10/2011 10:35:00 AM
Fluoranthene	ND	9.09		µg/Kg-dry	1	11/10/2011 10:35:00 AM
Fluorene	ND	9.09		µg/Kg-dry	1	11/10/2011 10:35:00 AM
Indeno(1,2,3-cd)pyrene	ND	9.09		µg/Kg-dry	1	11/10/2011 10:35:00 AM
Naphthalene	ND	9.09		µg/Kg-dry	1	11/10/2011 10:35:00 AM
Phenanthrene	ND	9.09		µg/Kg-dry	1	11/10/2011 10:35:00 AM
Pyrene	ND	9.09		µg/Kg-dry	1	11/10/2011 10:35:00 AM
Surr: 2-Fluorobiphenyl	42.4	42.6-128	S	%REC	1	11/10/2011 10:35:00 AM
Surr: Nitrobenzene-d5	45.0	21.7-155		%REC	1	11/10/2011 10:35:00 AM
Surr: p-Terphenyl-d14	73.9	44.9-155		%REC	1	11/10/2011 10:35:00 AM
PCB'S IN SOIL						
		SW8082				Analyst: jrp
Aroclor 1016	ND	0.454		µg/Kg-dry	1	11/4/2011
Aroclor 1221	ND	0.454		µg/Kg-dry	1	11/4/2011
Aroclor 1232	ND	0.454		µg/Kg-dry	1	11/4/2011
Aroclor 1242	ND	0.454		µg/Kg-dry	1	11/4/2011
Aroclor 1248	ND	0.454		µg/Kg-dry	1	11/4/2011
Aroclor 1254	ND	0.454		µg/Kg-dry	1	11/4/2011
Aroclor 1260	ND	0.454		µg/Kg-dry	1	11/4/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-13

Client Sample ID: TP-22-S-10.0
Collection Date: 10/28/2011 11:20:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082				Analyst: jrp
Aroclor 1262	ND	0.454		µg/Kg-dry	1	11/4/2011
Aroclor 1268	ND	0.454		µg/Kg-dry	1	11/4/2011
Surr: Decachlorobiphenyl	109	56.5-130		%REC	1	11/4/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-14

Client Sample ID: TP-23-S-3.0
Collection Date: 10/28/2011 11:55:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrj
Diesel	409	23.9	A1	mg/Kg-dry	1	11/4/2011
Lube Oil	502	79.6	A2	mg/Kg-dry	1	11/4/2011
Surr: o-Terphenyl	90.2	50-150		%REC	1	11/4/2011
TOTAL METALS BY ICP		E6010				Analyst: cmt
Arsenic	ND	3.18		mg/Kg-dry	1	11/2/2011 11:09:22 AM
Barium	92.2	1.59		mg/Kg-dry	1	11/2/2011 11:09:22 AM
Cadmium	ND	0.159		mg/Kg-dry	1	11/2/2011 11:09:22 AM
Chromium	12.5	0.796		mg/Kg-dry	1	11/2/2011 11:09:22 AM
Lead	4.51	3.18		mg/Kg-dry	1	11/2/2011 11:09:22 AM
Selenium	ND	3.18		mg/Kg-dry	1	11/2/2011 11:09:22 AM
Silver	ND	3.18		mg/Kg-dry	1	11/2/2011 11:09:22 AM
MERCURY, TOTAL		SW7471				Analyst: zau
Mercury	ND	0.0235		mg/Kg-dry	1	11/3/2011
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: bda
1-Methylnaphthalene	1430	10.6		µg/Kg-dry	1	11/8/2011 7:17:00 PM
2-Methylnaphthalene	1560	10.6		µg/Kg-dry	1	11/8/2011 7:17:00 PM
Acenaphthene	5870	106		µg/Kg-dry	10	11/9/2011 11:43:00 AM
Acenaphthylene	31.8	10.6		µg/Kg-dry	1	11/8/2011 7:17:00 PM
Anthracene	781	10.6		µg/Kg-dry	1	11/8/2011 7:17:00 PM
Benz(a)anthracene	25.5	10.6		µg/Kg-dry	1	11/8/2011 7:17:00 PM
Benzo(a)pyrene	27.6	10.6		µg/Kg-dry	1	11/8/2011 7:17:00 PM
Benzo(b)fluoranthene	38.2	10.6		µg/Kg-dry	1	11/8/2011 7:17:00 PM
Benzo(g,h,i)perylene	ND	10.6		µg/Kg-dry	1	11/8/2011 7:17:00 PM
Benzo(k)fluoranthene	11.7	10.6		µg/Kg-dry	1	11/8/2011 7:17:00 PM
Chrysene	38.2	10.6		µg/Kg-dry	1	11/8/2011 7:17:00 PM
Dibenz(a,h)anthracene	12.7	10.6		µg/Kg-dry	1	11/8/2011 7:17:00 PM
Fluoranthene	816	10.6		µg/Kg-dry	1	11/8/2011 7:17:00 PM
Fluorene	5150	106		µg/Kg-dry	10	11/9/2011 11:43:00 AM
Indeno(1,2,3-cd)pyrene	24.4	10.6		µg/Kg-dry	1	11/8/2011 7:17:00 PM
Naphthalene	243	10.6		µg/Kg-dry	1	11/8/2011 7:17:00 PM
Phenanthrene	9610	106		µg/Kg-dry	10	11/9/2011 11:43:00 AM
Pyrene	510	10.6		µg/Kg-dry	1	11/8/2011 7:17:00 PM
Surr: 2-Fluorobiphenyl	58.5	42.6-128		%REC	1	11/8/2011 7:17:00 PM
Surr: Nitrobenzene-d5	58.9	21.7-155		%REC	1	11/8/2011 7:17:00 PM
Surr: p-Terphenyl-d14	63.5	44.9-155		%REC	1	11/8/2011 7:17:00 PM
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
1,1,1,2-Tetrachloroethane	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
1,1,1-Trichloroethane	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
1,1,2,2-Tetrachloroethane	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-14

Client Sample ID: TP-23-S-3.0
Collection Date: 10/28/2011 11:55:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
1,1,2-Trichloroethane	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
1,1-Dichloroethane	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
1,1-Dichloroethene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
1,1-Dichloropropene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
1,2,3-Trichlorobenzene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
1,2,3-Trichloropropane	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
1,2,4-Trichlorobenzene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
1,2,4-Trimethylbenzene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
1,2-Dibromo-3-chloropropane	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
1,2-Dibromoethane	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
1,2-Dichlorobenzene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
1,2-Dichloroethane	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
1,2-Dichloropropane	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
1,3,5-Trimethylbenzene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
1,3-Dichlorobenzene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
1,3-Dichloropropane	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
1,4-Dichlorobenzene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
2,2-Dichloropropane	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
2-Butanone	ND	78.3		ug/Kg-dry	1	11/8/2011 6:59:00 PM
2-Chlorotoluene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
2-Hexanone	ND	39.2		ug/Kg-dry	1	11/8/2011 6:59:00 PM
4-Chlorotoluene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
4-Isopropyltoluene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
4-Methyl-2-pentanone	ND	78.3		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Acetone	ND	196		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Benzene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Bromobenzene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Bromochloromethane	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Bromodichloromethane	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Bromoform	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Bromomethane	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Carbon Disulfide	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Carbon tetrachloride	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Chlorobenzene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Chloroethane	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Chloroform	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Chloromethane	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
cis-1,2-Dichloroethene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
cis-1,3-Dichloropropene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Dibromochloromethane	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Dibromomethane	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-14

Client Sample ID: TP-23-S-3.0
Collection Date: 10/28/2011 11:55:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
Dichlorodifluoromethane	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Ethylbenzene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Hexachlorobutadiene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Isopropylbenzene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
m,p-Xylene	ND	39.2		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Methyl tert-butyl ether	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Methylene Chloride	ND	97.9		ug/Kg-dry	1	11/8/2011 6:59:00 PM
n-Butylbenzene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
n-Propylbenzene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Naphthalene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
o-Xylene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
sec-Butylbenzene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Styrene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
tert-Butylbenzene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Tetrachloroethene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Toluene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
trans-1,2-Dichloroethene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
trans-1,3-Dichloropropene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Trichloroethene	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Trichlorofluoromethane	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Vinyl Chloride	ND	19.6		ug/Kg-dry	1	11/8/2011 6:59:00 PM
Surr: 1,2-Dichloroethane-d4	109	71.5-112		%REC	1	11/8/2011 6:59:00 PM
Surr: 4-Bromofluorobenzene	84.2	75.7-122		%REC	1	11/8/2011 6:59:00 PM
Surr: Dibromofluoromethane	101	64.3-124		%REC	1	11/8/2011 6:59:00 PM
Surr: Toluene-d8	117	74.9-120		%REC	1	11/8/2011 6:59:00 PM

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-15

Client Sample ID: TP-23-S-5.0
Collection Date: 10/28/2011 12:10:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-16

Client Sample ID: TP-24-S-1.0
Collection Date: 10/28/2011 12:30:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrj
Diesel	ND	17.6		mg/Kg-dry	1	11/4/2011
Lube Oil	135	58.6		mg/Kg-dry	1	11/4/2011
Surr: o-Terphenyl	93.2	50-150		%REC	1	11/4/2011
TOTAL METALS BY ICP		E6010				Analyst: cmt
Arsenic	ND	2.02		mg/Kg-dry	1	11/2/2011 12:19:24 PM
Barium	140	1.01		mg/Kg-dry	1	11/2/2011 12:19:24 PM
Cadmium	ND	0.101		mg/Kg-dry	1	11/2/2011 12:19:24 PM
Chromium	15.0	0.505		mg/Kg-dry	1	11/2/2011 12:19:24 PM
Lead	20.1	2.02		mg/Kg-dry	1	11/2/2011 12:19:24 PM
Selenium	ND	2.02		mg/Kg-dry	1	11/2/2011 12:19:24 PM
Silver	2.32	2.02		mg/Kg-dry	1	11/2/2011 12:19:24 PM
MERCURY, TOTAL		SW7471				Analyst: zau
Mercury	0.0384	0.0196		mg/Kg-dry	1	11/3/2011
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: bda
1-Methylnaphthalene	ND	7.82		µg/Kg-dry	1	11/9/2011 12:30:00 AM
2-Methylnaphthalene	ND	7.82		µg/Kg-dry	1	11/9/2011 12:30:00 AM
Acenaphthene	ND	7.82		µg/Kg-dry	1	11/9/2011 12:30:00 AM
Acenaphthylene	ND	7.82		µg/Kg-dry	1	11/9/2011 12:30:00 AM
Anthracene	10.2	7.82		µg/Kg-dry	1	11/9/2011 12:30:00 AM
Benz(a)anthracene	16.4	7.82		µg/Kg-dry	1	11/9/2011 12:30:00 AM
Benzo(a)pyrene	20.3	7.82		µg/Kg-dry	1	11/9/2011 12:30:00 AM
Benzo(b)fluoranthene	28.9	7.82		µg/Kg-dry	1	11/9/2011 12:30:00 AM
Benzo(g,h,i)perylene	24.2	7.82		µg/Kg-dry	1	11/9/2011 12:30:00 AM
Benzo(k)fluoranthene	ND	7.82		µg/Kg-dry	1	11/9/2011 12:30:00 AM
Chrysene	21.1	7.82		µg/Kg-dry	1	11/9/2011 12:30:00 AM
Dibenz(a,h)anthracene	ND	7.82		µg/Kg-dry	1	11/9/2011 12:30:00 AM
Fluoranthene	28.1	7.82		µg/Kg-dry	1	11/9/2011 12:30:00 AM
Fluorene	ND	7.82		µg/Kg-dry	1	11/9/2011 12:30:00 AM
Indeno(1,2,3-cd)pyrene	12.5	7.82		µg/Kg-dry	1	11/9/2011 12:30:00 AM
Naphthalene	ND	7.82		µg/Kg-dry	1	11/9/2011 12:30:00 AM
Phenanthrene	11.7	7.82		µg/Kg-dry	1	11/9/2011 12:30:00 AM
Pyrene	43.0	7.82		µg/Kg-dry	1	11/9/2011 12:30:00 AM
Surr: 2-Fluorobiphenyl	70.0	42.6-128		%REC	1	11/9/2011 12:30:00 AM
Surr: Nitrobenzene-d5	65.4	21.7-155		%REC	1	11/9/2011 12:30:00 AM
Surr: p-Terphenyl-d14	80.6	44.9-155		%REC	1	11/9/2011 12:30:00 AM
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
1,1,1,2-Tetrachloroethane	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
1,1,1-Trichloroethane	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
1,1,2,2-Tetrachloroethane	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-16

Client Sample ID: TP-24-S-1.0
Collection Date: 10/28/2011 12:30:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
1,1,2-Trichloroethane	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
1,1-Dichloroethane	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
1,1-Dichloroethene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
1,1-Dichloropropene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
1,2,3-Trichlorobenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
1,2,3-Trichloropropane	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
1,2,4-Trichlorobenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
1,2,4-Trimethylbenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
1,2-Dibromo-3-chloropropane	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
1,2-Dibromoethane	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
1,2-Dichlorobenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
1,2-Dichloroethane	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
1,2-Dichloropropane	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
1,3,5-Trimethylbenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
1,3-Dichlorobenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
1,3-Dichloropropane	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
1,4-Dichlorobenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
2,2-Dichloropropane	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
2-Butanone	ND	66.2		ug/Kg-dry	1	11/5/2011 6:00:00 PM
2-Chlorotoluene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
2-Hexanone	ND	33.1		ug/Kg-dry	1	11/5/2011 6:00:00 PM
4-Chlorotoluene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
4-Isopropyltoluene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
4-Methyl-2-pentanone	ND	66.2		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Acetone	ND	166		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Benzene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Bromobenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Bromochloromethane	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Bromodichloromethane	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Bromoform	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Bromomethane	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Carbon Disulfide	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Carbon tetrachloride	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Chlorobenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Chloroethane	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Chloroform	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Chloromethane	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
cis-1,2-Dichloroethene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
cis-1,3-Dichloropropene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Dibromochloromethane	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Dibromomethane	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-16

Client Sample ID: TP-24-S-1.0
Collection Date: 10/28/2011 12:30:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: rkg		
Dichlorodifluoromethane	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Ethylbenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Hexachlorobutadiene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Isopropylbenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
m,p-Xylene	ND	33.1		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Methyl tert-butyl ether	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Methylene Chloride	ND	82.8		ug/Kg-dry	1	11/5/2011 6:00:00 PM
n-Butylbenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
n-Propylbenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Naphthalene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
o-Xylene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
sec-Butylbenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Styrene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
tert-Butylbenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Tetrachloroethene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Toluene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
trans-1,2-Dichloroethene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
trans-1,3-Dichloropropene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Trichloroethene	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Trichlorofluoromethane	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Vinyl Chloride	ND	16.6		ug/Kg-dry	1	11/5/2011 6:00:00 PM
Surr: 1,2-Dichloroethane-d4	106	71.5-112		%REC	1	11/5/2011 6:00:00 PM
Surr: 4-Bromofluorobenzene	81.7	75.7-122		%REC	1	11/5/2011 6:00:00 PM
Surr: Dibromofluoromethane	94.9	64.3-124		%REC	1	11/5/2011 6:00:00 PM
Surr: Toluene-d8	107	74.9-120		%REC	1	11/5/2011 6:00:00 PM

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-17

Client Sample ID: TP-24-S-3.0
Collection Date: 10/28/2011 12:45:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-18

Client Sample ID: TP-24-S-5.0
Collection Date: 10/28/2011 1:00:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-19

Client Sample ID: TP-25-S-1.0
Collection Date: 10/28/2011 1:20:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX						
NWTPH-DX			Analyst: jrj			
Diesel	928	16.6	A1,K	mg/Kg-dry	1	11/4/2011
Lube Oil	7920	552		mg/Kg-dry	10	11/4/2011
Surr: o-Terphenyl	119	50-150		%REC	1	11/4/2011
TOTAL METALS BY ICP						
E6010			Analyst: cmt			
Arsenic	ND	1.62		mg/Kg-dry	1	11/2/2011 12:24:22 PM
Barium	53.8	0.812		mg/Kg-dry	1	11/2/2011 12:24:22 PM
Cadmium	ND	0.0812		mg/Kg-dry	1	11/2/2011 12:24:22 PM
Chromium	4.52	0.406		mg/Kg-dry	1	11/2/2011 12:24:22 PM
Lead	ND	1.62		mg/Kg-dry	1	11/2/2011 12:24:22 PM
Selenium	ND	1.62		mg/Kg-dry	1	11/2/2011 12:24:22 PM
Silver	2.55	1.62		mg/Kg-dry	1	11/2/2011 12:24:22 PM
MERCURY, TOTAL						
SW7471			Analyst: zau			
Mercury	0.0213	0.0184		mg/Kg-dry	1	11/3/2011
LOW LEVEL PAH BY GC/MS						
8270SIM			Analyst: bda			
1-Methylnaphthalene	ND	7.36		µg/Kg-dry	1	11/8/2011 7:43:00 PM
2-Methylnaphthalene	ND	7.36		µg/Kg-dry	1	11/8/2011 7:43:00 PM
Acenaphthene	ND	7.36		µg/Kg-dry	1	11/8/2011 7:43:00 PM
Acenaphthylene	ND	7.36		µg/Kg-dry	1	11/8/2011 7:43:00 PM
Anthracene	ND	7.36		µg/Kg-dry	1	11/8/2011 7:43:00 PM
Benz(a)anthracene	ND	7.36		µg/Kg-dry	1	11/8/2011 7:43:00 PM
Benzo(a)pyrene	ND	7.36		µg/Kg-dry	1	11/8/2011 7:43:00 PM
Benzo(b)fluoranthene	ND	7.36		µg/Kg-dry	1	11/8/2011 7:43:00 PM
Benzo(g,h,i)perylene	ND	7.36		µg/Kg-dry	1	11/8/2011 7:43:00 PM
Benzo(k)fluoranthene	ND	7.36		µg/Kg-dry	1	11/8/2011 7:43:00 PM
Chrysene	ND	7.36		µg/Kg-dry	1	11/8/2011 7:43:00 PM
Dibenz(a,h)anthracene	ND	7.36		µg/Kg-dry	1	11/8/2011 7:43:00 PM
Fluoranthene	ND	7.36		µg/Kg-dry	1	11/8/2011 7:43:00 PM
Fluorene	ND	7.36		µg/Kg-dry	1	11/8/2011 7:43:00 PM
Indeno(1,2,3-cd)pyrene	ND	7.36		µg/Kg-dry	1	11/8/2011 7:43:00 PM
Naphthalene	ND	7.36		µg/Kg-dry	1	11/8/2011 7:43:00 PM
Phenanthrene	ND	7.36		µg/Kg-dry	1	11/8/2011 7:43:00 PM
Pyrene	ND	7.36		µg/Kg-dry	1	11/8/2011 7:43:00 PM
Surr: 2-Fluorobiphenyl	77.4	42.6-128		%REC	1	11/8/2011 7:43:00 PM
Surr: Nitrobenzene-d5	70.7	21.7-155		%REC	1	11/8/2011 7:43:00 PM
Surr: p-Terphenyl-d14	71.3	44.9-155		%REC	1	11/8/2011 7:43:00 PM
VOLATILES BY GC/MS						
SW8260B			Analyst: rkg			
1,1,1,2-Tetrachloroethane	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
1,1,1-Trichloroethane	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
1,1,2,2-Tetrachloroethane	ND	55.2	Q	ug/Kg-dry	5	11/10/2011 12:58:00 PM

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-19

Client Sample ID: TP-25-S-1.0
Collection Date: 10/28/2011 1:20:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: rkg		
1,1,2-Trichloroethane	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
1,1-Dichloroethane	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
1,1-Dichloroethene	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
1,1-Dichloropropene	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
1,2,3-Trichlorobenzene	ND	55.2	Q	ug/Kg-dry	5	11/10/2011 12:58:00 PM
1,2,3-Trichloropropane	ND	55.2	Q	ug/Kg-dry	5	11/10/2011 12:58:00 PM
1,2,4-Trichlorobenzene	ND	55.2	Q	ug/Kg-dry	5	11/10/2011 12:58:00 PM
1,2,4-Trimethylbenzene	ND	55.2	Q	ug/Kg-dry	5	11/10/2011 12:58:00 PM
1,2-Dibromo-3-chloropropane	ND	55.2	Q	ug/Kg-dry	5	11/10/2011 12:58:00 PM
1,2-Dibromoethane	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
1,2-Dichlorobenzene	ND	55.2	Q	ug/Kg-dry	5	11/10/2011 12:58:00 PM
1,2-Dichloroethane	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
1,2-Dichloropropane	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
1,3,5-Trimethylbenzene	ND	55.2	Q	ug/Kg-dry	5	11/10/2011 12:58:00 PM
1,3-Dichlorobenzene	ND	55.2	Q	ug/Kg-dry	5	11/10/2011 12:58:00 PM
1,3-Dichloropropane	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
1,4-Dichlorobenzene	ND	55.2	Q	ug/Kg-dry	5	11/10/2011 12:58:00 PM
2,2-Dichloropropane	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
2-Butanone	ND	37.9		ug/Kg-dry	1	11/10/2011 11:42:00 AM
2-Chlorotoluene	ND	55.2	Q	ug/Kg-dry	5	11/10/2011 12:58:00 PM
2-Hexanone	223	18.9		ug/Kg-dry	1	11/10/2011 11:42:00 AM
4-Chlorotoluene	ND	55.2	Q	ug/Kg-dry	5	11/10/2011 12:58:00 PM
4-Isopropyltoluene	ND	55.2	Q	ug/Kg-dry	5	11/10/2011 12:58:00 PM
4-Methyl-2-pentanone	ND	37.9		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Acetone	116	94.7		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Benzene	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Bromobenzene	ND	55.2	Q	ug/Kg-dry	5	11/10/2011 12:58:00 PM
Bromochloromethane	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Bromodichloromethane	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Bromoform	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Bromomethane	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Carbon Disulfide	10.9	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Carbon tetrachloride	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Chlorobenzene	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Chloroethane	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Chloroform	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Chloromethane	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
cis-1,2-Dichloroethene	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
cis-1,3-Dichloropropene	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Dibromochloromethane	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Dibromomethane	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-19

Client Sample ID: TP-25-S-1.0
Collection Date: 10/28/2011 1:20:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
Dichlorodifluoromethane	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Ethylbenzene	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Hexachlorobutadiene	ND	55.2	Q	ug/Kg-dry	5	11/10/2011 12:58:00 PM
Isopropylbenzene	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
m,p-Xylene	ND	18.9		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Methyl tert-butyl ether	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Methylene Chloride	ND	47.4		ug/Kg-dry	1	11/10/2011 11:42:00 AM
n-Butylbenzene	ND	55.2	Q	ug/Kg-dry	5	11/10/2011 12:58:00 PM
n-Propylbenzene	ND	55.2	Q	ug/Kg-dry	5	11/10/2011 12:58:00 PM
Naphthalene	ND	55.2	Q	ug/Kg-dry	5	11/10/2011 12:58:00 PM
o-Xylene	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
sec-Butylbenzene	ND	55.2	Q	ug/Kg-dry	5	11/10/2011 12:58:00 PM
Styrene	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
tert-Butylbenzene	ND	55.2	Q	ug/Kg-dry	5	11/10/2011 12:58:00 PM
Tetrachloroethene	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Toluene	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
trans-1,2-Dichloroethene	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
trans-1,3-Dichloropropene	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Trichloroethene	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Trichlorofluoromethane	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Vinyl Chloride	ND	9.47		ug/Kg-dry	1	11/10/2011 11:42:00 AM
Surr: 1,2-Dichloroethane-d4	120	71.5-112	S	%REC	1	11/10/2011 11:42:00 AM
Surr: 4-Bromofluorobenzene	82.6	75.7-122		%REC	1	11/10/2011 11:42:00 AM
Surr: Dibromofluoromethane	117	64.3-124		%REC	1	11/10/2011 11:42:00 AM
Surr: Toluene-d8	113	74.9-120		%REC	1	11/10/2011 11:42:00 AM

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-20

Client Sample ID: TP-25-S-3.0
Collection Date: 10/28/2011 1:30:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: kh
Diesel	21.3	18.1		mg/Kg-dry	1	11/10/2011
Lube Oil	101	60.2		mg/Kg-dry	1	11/10/2011
Surr: o-Terphenyl	86.4	50-150		%REC	1	11/10/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-21

Client Sample ID: TP-25-S-5.0
Collection Date: 10/28/2011 1:40:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-22

Client Sample ID: TP-26-S-1.0
Collection Date: 10/28/2011 2:05:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrj
Diesel	ND	19.1		mg/Kg-dry	1	11/4/2011
Lube Oil	ND	63.5		mg/Kg-dry	1	11/4/2011
Surr: o-Terphenyl	77.5	50-150		%REC	1	11/4/2011
TOTAL METALS BY ICP		E6010				Analyst: cmt
Arsenic	3.37	2.44		mg/Kg-dry	1	11/2/2011 12:29:21 PM
Barium	67.0	1.22		mg/Kg-dry	1	11/2/2011 12:29:21 PM
Cadmium	ND	0.122		mg/Kg-dry	1	11/2/2011 12:29:21 PM
Chromium	17.1	0.611		mg/Kg-dry	1	11/2/2011 12:29:21 PM
Lead	2.88	2.44		mg/Kg-dry	1	11/2/2011 12:29:21 PM
Selenium	ND	2.44		mg/Kg-dry	1	11/2/2011 12:29:21 PM
Silver	ND	2.44		mg/Kg-dry	1	11/2/2011 12:29:21 PM
MERCURY, TOTAL		SW7471				Analyst: zau
Mercury	ND	0.0182		mg/Kg-dry	1	11/3/2011
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: bda
1-Methylnaphthalene	ND	8.48		µg/Kg-dry	1	11/8/2011 6:51:00 PM
2-Methylnaphthalene	ND	8.48		µg/Kg-dry	1	11/8/2011 6:51:00 PM
Acenaphthene	ND	8.48		µg/Kg-dry	1	11/8/2011 6:51:00 PM
Acenaphthylene	ND	8.48		µg/Kg-dry	1	11/8/2011 6:51:00 PM
Anthracene	ND	8.48		µg/Kg-dry	1	11/8/2011 6:51:00 PM
Benz(a)anthracene	ND	8.48		µg/Kg-dry	1	11/8/2011 6:51:00 PM
Benzo(a)pyrene	ND	8.48		µg/Kg-dry	1	11/8/2011 6:51:00 PM
Benzo(b)fluoranthene	ND	8.48		µg/Kg-dry	1	11/8/2011 6:51:00 PM
Benzo(g,h,i)perylene	ND	8.48		µg/Kg-dry	1	11/8/2011 6:51:00 PM
Benzo(k)fluoranthene	ND	8.48		µg/Kg-dry	1	11/8/2011 6:51:00 PM
Chrysene	ND	8.48		µg/Kg-dry	1	11/8/2011 6:51:00 PM
Dibenz(a,h)anthracene	ND	8.48		µg/Kg-dry	1	11/8/2011 6:51:00 PM
Fluoranthene	ND	8.48		µg/Kg-dry	1	11/8/2011 6:51:00 PM
Fluorene	ND	8.48		µg/Kg-dry	1	11/8/2011 6:51:00 PM
Indeno(1,2,3-cd)pyrene	ND	8.48		µg/Kg-dry	1	11/8/2011 6:51:00 PM
Naphthalene	ND	8.48		µg/Kg-dry	1	11/8/2011 6:51:00 PM
Phenanthrene	ND	8.48		µg/Kg-dry	1	11/8/2011 6:51:00 PM
Pyrene	ND	8.48		µg/Kg-dry	1	11/8/2011 6:51:00 PM
Surr: 2-Fluorobiphenyl	61.4	42.6-128		%REC	1	11/8/2011 6:51:00 PM
Surr: Nitrobenzene-d5	51.8	21.7-155		%REC	1	11/8/2011 6:51:00 PM
Surr: p-Terphenyl-d14	79.0	44.9-155		%REC	1	11/8/2011 6:51:00 PM
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
1,1,1,2-Tetrachloroethane	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
1,1,1-Trichloroethane	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
1,1,2,2-Tetrachloroethane	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-22

Client Sample ID: TP-26-S-1.0
Collection Date: 10/28/2011 2:05:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
1,1,2-Trichloroethane	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
1,1-Dichloroethane	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
1,1-Dichloroethene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
1,1-Dichloropropene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
1,2,3-Trichlorobenzene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
1,2,3-Trichloropropane	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
1,2,4-Trichlorobenzene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
1,2,4-Trimethylbenzene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
1,2-Dibromo-3-chloropropane	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
1,2-Dibromoethane	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
1,2-Dichlorobenzene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
1,2-Dichloroethane	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
1,2-Dichloropropane	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
1,3,5-Trimethylbenzene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
1,3-Dichlorobenzene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
1,3-Dichloropropane	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
1,4-Dichlorobenzene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
2,2-Dichloropropane	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
2-Butanone	ND	39.6		ug/Kg-dry	1	11/8/2011 8:10:00 PM
2-Chlorotoluene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
2-Hexanone	ND	19.8		ug/Kg-dry	1	11/8/2011 8:10:00 PM
4-Chlorotoluene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
4-Isopropyltoluene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
4-Methyl-2-pentanone	ND	39.6		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Acetone	ND	99.1		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Benzene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Bromobenzene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Bromochloromethane	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Bromodichloromethane	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Bromoform	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Bromomethane	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Carbon Disulfide	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Carbon tetrachloride	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Chlorobenzene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Chloroethane	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Chloroform	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Chloromethane	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
cis-1,2-Dichloroethene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
cis-1,3-Dichloropropene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Dibromochloromethane	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Dibromomethane	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-22

Client Sample ID: TP-26-S-1.0
Collection Date: 10/28/2011 2:05:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
Dichlorodifluoromethane	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Ethylbenzene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Hexachlorobutadiene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Isopropylbenzene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
m,p-Xylene	ND	19.8		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Methyl tert-butyl ether	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Methylene Chloride	ND	49.5		ug/Kg-dry	1	11/8/2011 8:10:00 PM
n-Butylbenzene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
n-Propylbenzene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Naphthalene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
o-Xylene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
sec-Butylbenzene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Styrene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
tert-Butylbenzene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Tetrachloroethene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Toluene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
trans-1,2-Dichloroethene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
trans-1,3-Dichloropropene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Trichloroethene	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Trichlorofluoromethane	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Vinyl Chloride	ND	9.91		ug/Kg-dry	1	11/8/2011 8:10:00 PM
Surr: 1,2-Dichloroethane-d4	109	71.5-112		%REC	1	11/8/2011 8:10:00 PM
Surr: 4-Bromofluorobenzene	84.5	75.7-122		%REC	1	11/8/2011 8:10:00 PM
Surr: Dibromofluoromethane	102	64.3-124		%REC	1	11/8/2011 8:10:00 PM
Surr: Toluene-d8	115	74.9-120		%REC	1	11/8/2011 8:10:00 PM

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-23

Client Sample ID: TP-26-S-3.0
Collection Date: 10/28/2011 2:10:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-24

Client Sample ID: TP-26-S-5.0
Collection Date: 10/28/2011 2:15:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-25

Client Sample ID: TP-27-S-1.0
Collection Date: 10/28/2011 2:30:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrj
Diesel	ND	18.6		mg/Kg-dry	1	11/4/2011
Lube Oil	ND	62.0		mg/Kg-dry	1	11/4/2011
Surr: o-Terphenyl	74.0	50-150		%REC	1	11/4/2011
TOTAL METALS BY ICP		E6010				Analyst: cmt
Arsenic	4.32	2.48		mg/Kg-dry	1	11/2/2011 12:54:52 PM
Barium	102	1.24		mg/Kg-dry	1	11/2/2011 12:54:52 PM
Cadmium	ND	0.124		mg/Kg-dry	1	11/2/2011 12:54:52 PM
Chromium	14.6	0.620		mg/Kg-dry	1	11/2/2011 12:54:52 PM
Lead	6.79	2.48		mg/Kg-dry	1	11/2/2011 12:54:52 PM
Selenium	ND	2.48		mg/Kg-dry	1	11/2/2011 12:54:52 PM
Silver	ND	2.48		mg/Kg-dry	1	11/2/2011 12:54:52 PM
MERCURY, TOTAL		SW7471				Analyst: zau
Mercury	ND	0.0194		mg/Kg-dry	1	11/3/2011
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: bda
1-Methylnaphthalene	ND	8.27		µg/Kg-dry	1	11/8/2011 5:32:00 PM
2-Methylnaphthalene	ND	8.27		µg/Kg-dry	1	11/8/2011 5:32:00 PM
Acenaphthene	ND	8.27		µg/Kg-dry	1	11/8/2011 5:32:00 PM
Acenaphthylene	ND	8.27		µg/Kg-dry	1	11/8/2011 5:32:00 PM
Anthracene	ND	8.27		µg/Kg-dry	1	11/8/2011 5:32:00 PM
Benz(a)anthracene	22.3	8.27		µg/Kg-dry	1	11/8/2011 5:32:00 PM
Benzo(a)pyrene	52.0	8.27		µg/Kg-dry	1	11/8/2011 5:32:00 PM
Benzo(b)fluoranthene	149	8.27		µg/Kg-dry	1	11/8/2011 5:32:00 PM
Benzo(g,h,i)perylene	75.2	8.27		µg/Kg-dry	1	11/8/2011 5:32:00 PM
Benzo(k)fluoranthene	35.5	8.27		µg/Kg-dry	1	11/8/2011 5:32:00 PM
Chrysene	47.9	8.27		µg/Kg-dry	1	11/8/2011 5:32:00 PM
Dibenz(a,h)anthracene	28.1	8.27		µg/Kg-dry	1	11/8/2011 5:32:00 PM
Fluoranthene	14.9	8.27		µg/Kg-dry	1	11/8/2011 5:32:00 PM
Fluorene	ND	8.27		µg/Kg-dry	1	11/8/2011 5:32:00 PM
Indeno(1,2,3-cd)pyrene	43.8	8.27		µg/Kg-dry	1	11/8/2011 5:32:00 PM
Naphthalene	ND	8.27		µg/Kg-dry	1	11/8/2011 5:32:00 PM
Phenanthrene	ND	8.27		µg/Kg-dry	1	11/8/2011 5:32:00 PM
Pyrene	14.0	8.27		µg/Kg-dry	1	11/8/2011 5:32:00 PM
Surr: 2-Fluorobiphenyl	65.3	42.6-128		%REC	1	11/8/2011 5:32:00 PM
Surr: Nitrobenzene-d5	51.9	21.7-155		%REC	1	11/8/2011 5:32:00 PM
Surr: p-Terphenyl-d14	80.5	44.9-155		%REC	1	11/8/2011 5:32:00 PM
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
1,1,1,2-Tetrachloroethane	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
1,1,1-Trichloroethane	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
1,1,2,2-Tetrachloroethane	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-25

Client Sample ID: TP-27-S-1.0
Collection Date: 10/28/2011 2:30:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: rkg		
1,1,2-Trichloroethane	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
1,1-Dichloroethane	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
1,1-Dichloroethene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
1,1-Dichloropropene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
1,2,3-Trichlorobenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
1,2,3-Trichloropropane	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
1,2,4-Trichlorobenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
1,2,4-Trimethylbenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
1,2-Dibromo-3-chloropropane	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
1,2-Dibromoethane	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
1,2-Dichlorobenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
1,2-Dichloroethane	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
1,2-Dichloropropane	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
1,3,5-Trimethylbenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
1,3-Dichlorobenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
1,3-Dichloropropane	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
1,4-Dichlorobenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
2,2-Dichloropropane	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
2-Butanone	ND	66.5		ug/Kg-dry	1	11/5/2011 7:43:00 PM
2-Chlorotoluene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
2-Hexanone	ND	33.2		ug/Kg-dry	1	11/5/2011 7:43:00 PM
4-Chlorotoluene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
4-Isopropyltoluene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
4-Methyl-2-pentanone	ND	66.5		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Acetone	ND	166		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Benzene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Bromobenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Bromochloromethane	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Bromodichloromethane	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Bromoform	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Bromomethane	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Carbon Disulfide	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Carbon tetrachloride	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Chlorobenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Chloroethane	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Chloroform	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Chloromethane	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
cis-1,2-Dichloroethene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
cis-1,3-Dichloropropene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Dibromochloromethane	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Dibromomethane	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-25

Client Sample ID: TP-27-S-1.0
Collection Date: 10/28/2011 2:30:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B				Analyst: rk
Dichlorodifluoromethane	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Ethylbenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Hexachlorobutadiene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Isopropylbenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
m,p-Xylene	ND	33.2		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Methyl tert-butyl ether	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Methylene Chloride	ND	83.1		ug/Kg-dry	1	11/5/2011 7:43:00 PM
n-Butylbenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
n-Propylbenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Naphthalene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
o-Xylene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
sec-Butylbenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Styrene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
tert-Butylbenzene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Tetrachloroethene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Toluene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
trans-1,2-Dichloroethene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
trans-1,3-Dichloropropene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Trichloroethene	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Trichlorofluoromethane	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Vinyl Chloride	ND	16.6		ug/Kg-dry	1	11/5/2011 7:43:00 PM
Surr: 1,2-Dichloroethane-d4	109	71.5-112		%REC	1	11/5/2011 7:43:00 PM
Surr: 4-Bromofluorobenzene	84.9	75.7-122		%REC	1	11/5/2011 7:43:00 PM
Surr: Dibromofluoromethane	98.9	64.3-124		%REC	1	11/5/2011 7:43:00 PM
Surr: Toluene-d8	115	74.9-120		%REC	1	11/5/2011 7:43:00 PM

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-26

Client Sample ID: TP-27-S-3.0
Collection Date: 10/28/2011 2:35:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST						Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-27

Client Sample ID: TP-27-S-5.0
Collection Date: 10/28/2011 2:45:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST						Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-28

Client Sample ID: TP-28-S-1.0
Collection Date: 10/28/2011 3:00:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX						
NWTPH-DX			Analyst: jrj			
Diesel	ND	18.1		mg/Kg-dry	1	11/4/2011
Lube Oil	ND	60.5		mg/Kg-dry	1	11/4/2011
Surr: o-Terphenyl	80.2	50-150		%REC	1	11/4/2011
TOTAL METALS BY ICP						
E6010			Analyst: cmt			
Arsenic	2.24	2.08		mg/Kg-dry	1	11/2/2011 12:59:51 PM
Barium	114	1.04		mg/Kg-dry	1	11/2/2011 12:59:51 PM
Cadmium	ND	0.104		mg/Kg-dry	1	11/2/2011 12:59:51 PM
Chromium	18.4	0.521		mg/Kg-dry	1	11/2/2011 12:59:51 PM
Lead	2.94	2.08		mg/Kg-dry	1	11/2/2011 12:59:51 PM
Selenium	ND	2.08		mg/Kg-dry	1	11/2/2011 12:59:51 PM
Silver	ND	2.08		mg/Kg-dry	1	11/2/2011 12:59:51 PM
MERCURY, TOTAL						
SW7471			Analyst: zau			
Mercury	0.0244	0.0195		mg/Kg-dry	1	11/3/2011
LOW LEVEL PAH BY GC/MS						
8270SIM			Analyst: bda			
1-Methylnaphthalene	ND	8.07		µg/Kg-dry	1	11/8/2011 5:06:00 PM
2-Methylnaphthalene	ND	8.07		µg/Kg-dry	1	11/8/2011 5:06:00 PM
Acenaphthene	ND	8.07		µg/Kg-dry	1	11/8/2011 5:06:00 PM
Acenaphthylene	ND	8.07		µg/Kg-dry	1	11/8/2011 5:06:00 PM
Anthracene	ND	8.07		µg/Kg-dry	1	11/8/2011 5:06:00 PM
Benz(a)anthracene	ND	8.07		µg/Kg-dry	1	11/8/2011 5:06:00 PM
Benzo(a)pyrene	9.67	8.07		µg/Kg-dry	1	11/8/2011 5:06:00 PM
Benzo(b)fluoranthene	ND	8.07		µg/Kg-dry	1	11/8/2011 5:06:00 PM
Benzo(g,h,i)perylene	9.67	8.07		µg/Kg-dry	1	11/8/2011 5:06:00 PM
Benzo(k)fluoranthene	ND	8.07		µg/Kg-dry	1	11/8/2011 5:06:00 PM
Chrysene	ND	8.07		µg/Kg-dry	1	11/8/2011 5:06:00 PM
Dibenz(a,h)anthracene	8.87	8.07		µg/Kg-dry	1	11/8/2011 5:06:00 PM
Fluoranthene	ND	8.07		µg/Kg-dry	1	11/8/2011 5:06:00 PM
Fluorene	ND	8.07		µg/Kg-dry	1	11/8/2011 5:06:00 PM
Indeno(1,2,3-cd)pyrene	ND	8.07		µg/Kg-dry	1	11/8/2011 5:06:00 PM
Naphthalene	ND	8.07		µg/Kg-dry	1	11/8/2011 5:06:00 PM
Phenanthrene	ND	8.07		µg/Kg-dry	1	11/8/2011 5:06:00 PM
Pyrene	ND	8.07		µg/Kg-dry	1	11/8/2011 5:06:00 PM
Surr: 2-Fluorobiphenyl	65.1	42.6-128		%REC	1	11/8/2011 5:06:00 PM
Surr: Nitrobenzene-d5	55.1	21.7-155		%REC	1	11/8/2011 5:06:00 PM
Surr: p-Terphenyl-d14	88.7	44.9-155		%REC	1	11/8/2011 5:06:00 PM
VOLATILES BY GC/MS						
SW8260B			Analyst: rkg			
1,1,1,2-Tetrachloroethane	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
1,1,1-Trichloroethane	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
1,1,2,2-Tetrachloroethane	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-28

Client Sample ID: TP-28-S-1.0
Collection Date: 10/28/2011 3:00:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
1,1,2-Trichloroethane	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
1,1-Dichloroethane	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
1,1-Dichloroethene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
1,1-Dichloropropene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
1,2,3-Trichlorobenzene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
1,2,3-Trichloropropane	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
1,2,4-Trichlorobenzene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
1,2,4-Trimethylbenzene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
1,2-Dibromo-3-chloropropane	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
1,2-Dibromoethane	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
1,2-Dichlorobenzene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
1,2-Dichloroethane	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
1,2-Dichloropropane	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
1,3,5-Trimethylbenzene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
1,3-Dichlorobenzene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
1,3-Dichloropropane	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
1,4-Dichlorobenzene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
2,2-Dichloropropane	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
2-Butanone	ND	41.9		ug/Kg-dry	1	11/8/2011 8:46:00 PM
2-Chlorotoluene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
2-Hexanone	ND	20.9		ug/Kg-dry	1	11/8/2011 8:46:00 PM
4-Chlorotoluene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
4-Isopropyltoluene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
4-Methyl-2-pentanone	ND	41.9		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Acetone	ND	105		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Benzene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Bromobenzene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Bromochloromethane	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Bromodichloromethane	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Bromoform	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Bromomethane	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Carbon Disulfide	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Carbon tetrachloride	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Chlorobenzene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Chloroethane	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Chloroform	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Chloromethane	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
cis-1,2-Dichloroethene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
cis-1,3-Dichloropropene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Dibromochloromethane	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Dibromomethane	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-28

Client Sample ID: TP-28-S-1.0
Collection Date: 10/28/2011 3:00:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B				Analyst: rk
Dichlorodifluoromethane	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Ethylbenzene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Hexachlorobutadiene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Isopropylbenzene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
m,p-Xylene	ND	20.9		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Methyl tert-butyl ether	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Methylene Chloride	ND	52.3		ug/Kg-dry	1	11/8/2011 8:46:00 PM
n-Butylbenzene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
n-Propylbenzene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Naphthalene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
o-Xylene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
sec-Butylbenzene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Styrene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
tert-Butylbenzene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Tetrachloroethene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Toluene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
trans-1,2-Dichloroethene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
trans-1,3-Dichloropropene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Trichloroethene	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Trichlorofluoromethane	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Vinyl Chloride	ND	10.5		ug/Kg-dry	1	11/8/2011 8:46:00 PM
Surr: 1,2-Dichloroethane-d4	109	71.5-112		%REC	1	11/8/2011 8:46:00 PM
Surr: 4-Bromofluorobenzene	85.4	75.7-122		%REC	1	11/8/2011 8:46:00 PM
Surr: Dibromofluoromethane	102	64.3-124		%REC	1	11/8/2011 8:46:00 PM
Surr: Toluene-d8	119	74.9-120		%REC	1	11/8/2011 8:46:00 PM

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-29

Client Sample ID: TP-28-S-3.0
Collection Date: 10/28/2011 3:10:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-30

Client Sample ID: TP-28-S-5.0
Collection Date: 10/28/2011 3:15:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-31

Client Sample ID: TP-29-S-1.0
Collection Date: 10/28/2011 3:30:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrp
Diesel	83.7	17.6		mg/Kg-dry	1	11/4/2011
Lube Oil	757	58.6		mg/Kg-dry	1	11/4/2011
Surr: o-Terphenyl	81.4	50-150		%REC	1	11/4/2011
TOTAL METALS BY ICP		E6010				Analyst: cmt
Arsenic	2.00	1.95		mg/Kg-dry	1	11/2/2011 1:04:51 PM
Barium	47.9	0.977		mg/Kg-dry	1	11/2/2011 1:04:51 PM
Cadmium	0.352	0.0977		mg/Kg-dry	1	11/2/2011 1:04:51 PM
Chromium	10.8	0.488		mg/Kg-dry	1	11/2/2011 1:04:51 PM
Lead	109	1.95		mg/Kg-dry	1	11/2/2011 1:04:51 PM
Selenium	ND	1.95		mg/Kg-dry	1	11/2/2011 1:04:51 PM
Silver	ND	1.95		mg/Kg-dry	1	11/2/2011 1:04:51 PM
MERCURY, TOTAL		SW7471				Analyst: zau
Mercury	2.12	0.168		mg/Kg-dry	10	11/3/2011
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: bda
1-Methylnaphthalene	ND	7.82		µg/Kg-dry	1	11/8/2011 8:09:00 PM
2-Methylnaphthalene	ND	7.82		µg/Kg-dry	1	11/8/2011 8:09:00 PM
Acenaphthene	ND	7.82		µg/Kg-dry	1	11/8/2011 8:09:00 PM
Acenaphthylene	ND	7.82		µg/Kg-dry	1	11/8/2011 8:09:00 PM
Anthracene	20.3	7.82		µg/Kg-dry	1	11/8/2011 8:09:00 PM
Benz(a)anthracene	58.6	7.82		µg/Kg-dry	1	11/8/2011 8:09:00 PM
Benzo(a)pyrene	39.1	7.82		µg/Kg-dry	1	11/8/2011 8:09:00 PM
Benzo(b)fluoranthene	186	7.82		µg/Kg-dry	1	11/8/2011 8:09:00 PM
Benzo(g,h,i)perylene	77.4	7.82		µg/Kg-dry	1	11/8/2011 8:09:00 PM
Benzo(k)fluoranthene	21.9	7.82		µg/Kg-dry	1	11/8/2011 8:09:00 PM
Chrysene	77.4	7.82		µg/Kg-dry	1	11/8/2011 8:09:00 PM
Dibenz(a,h)anthracene	ND	7.82		µg/Kg-dry	1	11/8/2011 8:09:00 PM
Fluoranthene	138	7.82		µg/Kg-dry	1	11/8/2011 8:09:00 PM
Fluorene	ND	7.82		µg/Kg-dry	1	11/8/2011 8:09:00 PM
Indeno(1,2,3-cd)pyrene	49.2	7.82		µg/Kg-dry	1	11/8/2011 8:09:00 PM
Naphthalene	11.7	7.82		µg/Kg-dry	1	11/8/2011 8:09:00 PM
Phenanthrene	47.7	7.82		µg/Kg-dry	1	11/8/2011 8:09:00 PM
Pyrene	131	7.82		µg/Kg-dry	1	11/8/2011 8:09:00 PM
Surr: 2-Fluorobiphenyl	74.0	42.6-128		%REC	1	11/8/2011 8:09:00 PM
Surr: Nitrobenzene-d5	57.5	21.7-155		%REC	1	11/8/2011 8:09:00 PM
Surr: p-Terphenyl-d14	89.4	44.9-155		%REC	1	11/8/2011 8:09:00 PM
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
1,1,1,2-Tetrachloroethane	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
1,1,1-Trichloroethane	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
1,1,2,2-Tetrachloroethane	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-31

Client Sample ID: TP-29-S-1.0
Collection Date: 10/28/2011 3:30:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: rkg		
1,1,2-Trichloroethane	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
1,1-Dichloroethane	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
1,1-Dichloroethene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
1,1-Dichloropropene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
1,2,3-Trichlorobenzene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
1,2,3-Trichloropropane	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
1,2,4-Trichlorobenzene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
1,2,4-Trimethylbenzene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
1,2-Dibromo-3-chloropropane	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
1,2-Dibromoethane	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
1,2-Dichlorobenzene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
1,2-Dichloroethane	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
1,2-Dichloropropane	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
1,3,5-Trimethylbenzene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
1,3-Dichlorobenzene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
1,3-Dichloropropane	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
1,4-Dichlorobenzene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
2,2-Dichloropropane	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
2-Butanone	ND	64.3		ug/Kg-dry	1	11/8/2011 9:21:00 PM
2-Chlorotoluene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
2-Hexanone	ND	32.2		ug/Kg-dry	1	11/8/2011 9:21:00 PM
4-Chlorotoluene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
4-Isopropyltoluene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
4-Methyl-2-pentanone	ND	64.3		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Acetone	ND	161		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Benzene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Bromobenzene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Bromochloromethane	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Bromodichloromethane	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Bromoform	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Bromomethane	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Carbon Disulfide	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Carbon tetrachloride	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Chlorobenzene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Chloroethane	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Chloroform	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Chloromethane	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
cis-1,2-Dichloroethene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
cis-1,3-Dichloropropene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Dibromochloromethane	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Dibromomethane	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-31

Client Sample ID: TP-29-S-1.0
Collection Date: 10/28/2011 3:30:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B				Analyst: rkg
Dichlorodifluoromethane	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Ethylbenzene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Hexachlorobutadiene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Isopropylbenzene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
m,p-Xylene	ND	32.2		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Methyl tert-butyl ether	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Methylene Chloride	ND	80.4		ug/Kg-dry	1	11/8/2011 9:21:00 PM
n-Butylbenzene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
n-Propylbenzene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Naphthalene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
o-Xylene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
sec-Butylbenzene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Styrene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
tert-Butylbenzene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Tetrachloroethene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Toluene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
trans-1,2-Dichloroethene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
trans-1,3-Dichloropropene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Trichloroethene	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Trichlorofluoromethane	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Vinyl Chloride	ND	16.1		ug/Kg-dry	1	11/8/2011 9:21:00 PM
Surr: 1,2-Dichloroethane-d4	97.9	71.5-112		%REC	1	11/8/2011 9:21:00 PM
Surr: 4-Bromofluorobenzene	82.3	75.7-122		%REC	1	11/8/2011 9:21:00 PM
Surr: Dibromofluoromethane	98.8	64.3-124		%REC	1	11/8/2011 9:21:00 PM
Surr: Toluene-d8	126	74.9-120	S	%REC	1	11/8/2011 9:21:00 PM

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-32

Client Sample ID: TP-29-S-3.0
Collection Date: 10/28/2011 3:35:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
MERCURY, TOTAL		SW7471				Analyst: zau
Mercury	0.123	0.0163		mg/Kg-dry	1	11/8/2011

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1110255
Project: Port of C/W / 0229.04.03
Lab ID: 1110255-33

Client Sample ID: TP-29-S-5.0
Collection Date: 10/28/2011 3:45:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knt
Hold	Hold				1	11/10/2011

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT**TestCode: 6010_S**

Sample ID: MBLK-29872	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/1/2011	Run ID: TJA IRIS_111102D						
Client ID: ZZZZZ	Batch ID: 29872	TestNo: E6010		Analysis Date: 11/2/2011	SeqNo: 790254						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	2.00									
Barium	ND	1.00									
Cadmium	ND	0.100									
Chromium	ND	0.500									
Lead	ND	2.00									
Selenium	ND	2.00									
Silver	ND	2.00									

Sample ID: MBLK-29879	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/2/2011	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/3/2011	SeqNo: 790852						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	2.00									
Barium	ND	1.00									
Cadmium	ND	0.100									
Chromium	ND	0.500									
Lead	ND	2.00									
Selenium	ND	2.00									

Sample ID: MBLK-29879	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/2/2011	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/4/2011	SeqNo: 791090						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Silver	ND	2.00									
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Sample ID: LCS-29872	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/1/2011	Run ID: TJA IRIS_111102D						
Client ID: ZZZZZ	Batch ID: 29872	TestNo: E6010		Analysis Date: 11/2/2011	SeqNo: 790255						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: LCS-29872	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/1/2011	Run ID: TJA IRIS_111102D						
Client ID: ZZZZZ	Batch ID: 29872	TestNo: E6010		Analysis Date: 11/2/2011	SeqNo: 790255						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	89.7	2.00	100	0	89.7	85.1	107	0	0		
Barium	46.26	1.00	50	0	92.5	85.7	110	0	0		
Cadmium	4.57	0.100	5	0	91.4	87.2	109	0	0		
Chromium	23.96	0.500	25	0	95.8	84	113	0	0		
Lead	93.55	2.00	100	0	93.6	84.9	109	0	0		
Selenium	90.36	2.00	100	0	90.4	88.7	111	0	0		
Silver	42.56	2.00	50	0	85.1	79.3	109	0	0		

Sample ID: LCS-29879		SampType: LCS		TestCode: 6010_S		Units: mg/Kg		Prep Date: 11/2/2011		Run ID: TJA IRIS_111103E	
Client ID: ZZZZZ		Batch ID: 29879		TestNo: E6010				Analysis Date: 11/3/2011		SeqNo: 790854	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	96.6	2.00	100	0	96.6	85.1	107	0	0		
Barium	50.18	1.00	50	0	100	85.7	110	0	0		
Cadmium	4.92	0.100	5	0	98.4	87.2	109	0	0		
Chromium	25.46	0.500	25	0	102	84	113	0	0		
Lead	99.77	2.00	100	0	99.8	84.9	109	0	0		
Selenium	96.2	2.00	100	0	96.2	88.7	111	0	0		

Sample ID: LCS-29879	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/2/2011	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/4/2011	SeqNo: 791091						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Silver	49.28	2.00	50	0	98.6	79.3	109	0	0		
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Sample ID: 1110255-14AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 11/1/2011	Run ID: TJA IRIS_111102D						
Client ID: TP-23-S-3.0	Batch ID: 29872	TestNo: E6010		Analysis Date: 11/2/2011	SeqNo: 790258						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	127.4	3.18	159.2	0	80	86.1	109	0	0		S
Barium	171.2	1.59	79.62	92.17	99.2	75	125	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 1110255-14AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 11/1/2011	Run ID: TJA IRIS_111102D						
Client ID: TP-23-S-3.0	Batch ID: 29872	TestNo: E6010		Analysis Date: 11/2/2011	SeqNo: 790258						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	6.624	0.159	7.962	0.1115	81.8	86.4	113	0	0		S
Chromium	48.15	0.796	39.81	12.47	89.6	75	121	0	0		
Lead	132	3.18	159.2	4.506	80	84.9	109	0	0		S
Selenium	129.3	3.18	159.2	0	81.2	77.7	116	0	0		
Silver	64.41	3.18	79.62	1.561	78.9	75	123	0	0		

Sample ID: 1111006-02AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/2/2011	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/3/2011	SeqNo: 790859						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	86.83	1.85	92.59	0.9818	92.7	86.1	109	0	0		
Barium	46.45	0.926	46.3	2.1	95.8	75	125	0	0		
Cadmium	4.333	0.0926	4.63	0	93.6	86.4	113	0	0		
Chromium	33.92	0.463	23.15	5.636	122	75	121	0	0		S,RP
Lead	86.74	1.85	92.59	0	93.7	84.9	109	0	0		
Selenium	85.05	1.85	92.59	1.027	90.7	77.7	116	0	0		

Sample ID: 1111006-02AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/2/2011	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/4/2011	SeqNo: 791095						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	43.02	1.85	46.3	0	92.9	75	123	0	0		

Sample ID: 1110255-14AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 11/1/2011	Run ID: TJA IRIS_111102D						
Client ID: TP-23-S-3.0	Batch ID: 29872	TestNo: E6010		Analysis Date: 11/2/2011	SeqNo: 790259						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	131.6	3.18	159.2	0	82.7	86.1	109	127.4	3.30	20	S
Barium	166.2	1.59	79.62	92.17	93	75	125	171.2	2.93	20	
Cadmium	6.847	0.159	7.962	0.1115	84.6	86.4	113	6.624	3.31	20	S
Chromium	47.96	0.796	39.81	12.47	89.2	75	121	48.15	0.398	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 1110255-14AMSD		SampType: MSD		TestCode: 6010_S		Units: mg/Kg-dry		Prep Date: 11/1/2011		Run ID: TJA IRIS_111102D	
Client ID: TP-23-S-3.0		Batch ID: 29872		TestNo: E6010				Analysis Date: 11/2/2011		SeqNo: 790259	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	136.1	3.18	159.2	4.506	82.6	84.9	109	132	3.09	20	S
Selenium	131.9	3.18	159.2	0	82.9	77.7	116	129.3	2.05	20	
Silver	67.12	3.18	79.62	1.561	82.3	75	123	64.41	4.12	20	

Sample ID: 1111006-02AMSD		SampType: MSD		TestCode: 6010_S		Units: mg/Kg		Prep Date: 11/2/2011		Run ID: TJA IRIS_111103E	
Client ID: ZZZZZ		Batch ID: 29879		TestNo: E6010				Analysis Date: 11/3/2011		SeqNo: 790860	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	89.05	1.82	90.91	0.9818	96.9	86.1	109	86.83	2.53	20	
Barium	48.62	0.909	45.45	2.1	102	75	125	46.45	4.55	20	
Cadmium	4.509	0.0909	4.545	0	99.2	86.4	113	4.333	3.98	20	
Chromium	35.05	0.455	22.73	5.636	129	75	121	33.92	3.27	20	S,RP
Lead	90.57	1.82	90.91	0	99.6	84.9	109	86.74	4.32	20	
Selenium	89.24	1.82	90.91	1.027	97	77.7	116	85.05	4.81	20	

Sample ID: 1111006-02AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/2/2011	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/4/2011	SeqNo: 791096						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Silver	44.72	1.82	45.45	0	98.4	75	123	43.02	3.87	20	
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Sample ID: 1110255-14ADUP		SampType: DUP		TestCode: 6010_S		Units: mg/Kg-dry		Prep Date: 11/1/2011		Run ID: TJA IRIS_111102D	
Client ID: TP-23-S-3.0		Batch ID: 29872		TestNo: E6010				Analysis Date: 11/2/2011		SeqNo: 790257	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	3.06	0	0	0	0	0	0	0	20	
Barium	79.37	1.53	0	0	0	0	0	92.17	14.9	20	
Cadmium	ND	0.153	0	0	0	0	0	0.1115	0	20	
Chromium	11.15	0.766	0	0	0	0	0	12.47	11.2	20	
Lead	4.379	3.06	0	0	0	0	0	4.506	2.87	20	
Selenium	ND	3.06	0	0	0	0	0	0	0	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 1110255-14ADUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 11/1/2011	Run ID: TJA IRIS_111102D						
Client ID: TP-23-S-3.0	Batch ID: 29872	TestNo: E6010		Analysis Date: 11/2/2011	SeqNo: 790257						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Silver	1.7	3.06	0	0	0	0	0	1.561	0	20	J
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Sample ID: 1111006-02ADUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/2/2011	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/3/2011	SeqNo: 790857						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	1.82	0	0	0	0	0	0.9818	0	20	
Barium	2.609	0.909	0	0	0	0	0	2.1	21.6	20	R
Cadmium	ND	0.0909	0	0	0	0	0	0	0	20	
Chromium	5.8	0.455	0	0	0	0	0	5.636	2.86	20	
Lead	ND	1.82	0	0	0	0	0	0	0	20	
Selenium	ND	1.82	0	0	0	0	0	1.027	0	20	

Sample ID: 1111006-02ADUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/2/2011	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/4/2011	SeqNo: 791094						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Silver	ND	1.82	0	0	0	0	0	0	0	20	
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Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_111102D						
Client ID: ZZZZZ	Batch ID: 29872	TestNo: E6010		Analysis Date: 11/2/2011	SeqNo: 790260						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	96.78	2.00	100	0	96.8	90	110	0	0		
Barium	49.21	1.00	50	0	98.4	90	110	0	0		
Cadmium	4.94	0.100	5	0	98.8	90	110	0	0		
Chromium	25.11	0.500	25	0	100	90	110	0	0		
Lead	98.2	2.00	100	0	98.2	90	110	0	0		
Selenium	96.37	2.00	100	0	96.4	90	110	0	0		
Silver	47.24	2.00	50	0	94.5	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_111102D			
Client ID: ZZZZZ		Batch ID: 29872		TestNo: E6010				Analysis Date: 11/2/2011		SeqNo: 790270			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	98.11	2.00	100	0	98.1	90	110	0	0		
Barium	49.11	1.00	50	0	98.2	90	110	0	0		
Cadmium	4.89	0.100	5	0	97.8	90	110	0	0		
Chromium	25.44	0.500	25	0	102	90	110	0	0		
Lead	99.52	2.00	100	0	99.5	90	110	0	0		
Selenium	96.77	2.00	100	0	96.8	90	110	0	0		
Silver	48.01	2.00	50	0	96	90	110	0	0		

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:			Run ID: TJA IRIS_111102D	
Client ID: ZZZZZ		Batch ID: 29872		TestNo: E6010		Analysis Date: 11/2/2011			SeqNo: 790419			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	99.27	2.00	100	0	99.3	90	110	0	0		
Barium	48.45	1.00	50	0	96.9	90	110	0	0		
Cadmium	4.85	0.100	5	0	97	90	110	0	0		
Chromium	24.83	0.500	25	0	99.3	90	110	0	0		
Lead	97.87	2.00	100	0	97.9	90	110	0	0		
Selenium	95.6	2.00	100	0	95.6	90	110	0	0		
Silver	47.72	2.00	50	0	95.4	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/3/2011	SeqNo: 790850						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	96.91	2.00	100	0	96.9	90	110	0	0		
Barium	48.08	1.00	50	0	96.2	90	110	0	0		
Cadmium	4.84	0.100	5	0	96.8	90	110	0	0		
Chromium	25.24	0.500	25	0	101	90	110	0	0		
Lead	98.37	2.00	100	0	98.4	90	110	0	0		
Selenium	93.94	2.00	100	0	93.9	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_111103E			
Client ID: ZZZZZ		Batch ID: 29879		TestNo: E6010				Analysis Date: 11/3/2011		SeqNo: 790865			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	97	2.00	100	0	97	90	110	0	0		
Barium	49.63	1.00	50	0	99.3	90	110	0	0		
Cadmium	4.95	0.100	5	0	99	90	110	0	0		
Chromium	24.56	0.500	25	0	98.2	90	110	0	0		
Lead	99.03	2.00	100	0	99	90	110	0	0		
Selenium	97.01	2.00	100	0	97	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/3/2011	SeqNo: 790877						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	96.35	2.00	100	0	96.4	90	110	0	0		
Barium	50.96	1.00	50	0	102	90	110	0	0		
Cadmium	5.03	0.100	5	0	101	90	110	0	0		
Chromium	25.43	0.500	25	0	102	90	110	0	0		
Lead	99.99	2.00	100	0	100	90	110	0	0		
Selenium	98.36	2.00	100	0	98.4	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/4/2011	SeqNo: 791092						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Silver	47.9	2.00	50	0	95.8	90	110	0	0		
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Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/4/2011	SeqNo: 791101						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Silver	48	2.00	50	0	96	90	110	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_111103E			
Client ID: ZZZZZ		Batch ID: 29879		TestNo: E6010				Analysis Date: 11/4/2011		SeqNo: 791107			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Silver	48.93	2.00	50	0	97.9	90	110	0	0		
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Sample ID: ICV		SampType: ICV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_111102D	
Client ID: ZZZZZ		Batch ID: 29872		TestNo: E6010				Analysis Date: 11/2/2011		SeqNo: 790253	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	98.65	2.00	100	0	98.6	90	110	0	0		
Barium	49.15	1.00	50	0	98.3	90	110	0	0		
Cadmium	4.89	0.100	5	0	97.8	90	110	0	0		
Chromium	25.01	0.500	25	0	100	90	110	0	0		
Lead	99.51	2.00	100	0	99.5	90	110	0	0		
Selenium	96.88	2.00	100	0	96.9	90	110	0	0		
Silver	48.23	2.00	50	0	96.5	90	110	0	0		

Sample ID: ICV	SampType: ICV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_111103E						
Client ID: ZZZZZ	Batch ID: 29879	TestNo: E6010		Analysis Date: 11/3/2011	SeqNo: 790849						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	96.23	2.00	100	0	96.2	90	110	0	0		
Barium	48.71	1.00	50	0	97.4	90	110	0	0		
Cadmium	4.85	0.100	5	0	97	90	110	0	0		
Chromium	24.91	0.500	25	0	99.6	90	110	0	0		
Lead	96.64	2.00	100	0	96.6	90	110	0	0		
Selenium	95.33	2.00	100	0	95.3	90	110	0	0		

Sample ID: ICV		SampType: ICV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_111103E		
Client ID: ZZZZZ		Batch ID: 29879		TestNo: E6010				Analysis Date: 11/4/2011		SeqNo: 791089		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Silver	49.84	2.00	50	0	99.7	90	110	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: MB-29867	SampType: MBLK	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 11/1/2011	Run ID: GCK_111102B						
Client ID: ZZZZZ	Batch ID: 29867	TestNo: SW8082		Analysis Date: 11/2/2011	SeqNo: 790924						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	ND	0.333									
Aroclor 1221	ND	0.333									
Aroclor 1232	ND	0.333									
Aroclor 1242	ND	0.333									
Aroclor 1248	ND	0.333									
Aroclor 1254	ND	0.333									
Aroclor 1260	ND	0.333									
Aroclor 1262	ND	0.333									
Aroclor 1268	ND	0.333									
Surr: Decachlorobiphenyl	7704	0	6667	0	116	56.5	130	0	0		

Sample ID: MB-29889	SampType: MBLK	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 11/3/2011	Run ID: GCK_111104A						
Client ID: ZZZZZ	Batch ID: 29889	TestNo: SW8082		Analysis Date: 11/4/2011	SeqNo: 791236						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	ND	0.333									
Aroclor 1221	ND	0.333									
Aroclor 1232	ND	0.333									
Aroclor 1242	ND	0.333									
Aroclor 1248	ND	0.333									
Aroclor 1254	ND	0.333									
Aroclor 1260	ND	0.333									
Aroclor 1262	ND	0.333									
Aroclor 1268	ND	0.333									
Surr: Decachlorobiphenyl	6581	0	6667	0	98.7	56.5	130	0	0		

Sample ID: MB-29950	SampType: MBLK	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 11/10/2011	Run ID: GCK_111110A						
Client ID: ZZZZZ	Batch ID: 29950	TestNo: SW8082		Analysis Date: 11/10/2011	SeqNo: 792615						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	ND	0.333									
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Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: MB-29950	SampType: MBLK	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 11/10/2011	Run ID: GCK_111110A						
Client ID: ZZZZZ	Batch ID: 29950	TestNo: SW8082		Analysis Date: 11/10/2011	SeqNo: 792615						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1221	ND	0.333									
Aroclor 1232	ND	0.333									
Aroclor 1242	ND	0.333									
Aroclor 1248	ND	0.333									
Aroclor 1254	ND	0.333									
Aroclor 1260	ND	0.333									
Aroclor 1262	ND	0.333									
Aroclor 1268	ND	0.333									
Surr: Decachlorobiphenyl	6154	0	6667	0	92.3	56.5	130	0	0		

Sample ID: LCS-29867	SampType: LCS	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 11/1/2011	Run ID: GCK_111102B						
Client ID: ZZZZZ	Batch ID: 29867	TestNo: SW8082		Analysis Date: 11/2/2011	SeqNo: 790925						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	64	0.333	66.67	0	96	44.3	137	0	0		
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Sample ID: LCS-29889	SampType: LCS	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 11/3/2011	Run ID: GCK_111104A						
Client ID: ZZZZZ	Batch ID: 29889	TestNo: SW8082		Analysis Date: 11/4/2011	SeqNo: 791238						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	60.67	0.333	66.67	0	91	44.3	137	0	0		
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Sample ID: LCS-29950		SampType: LCS		TestCode: 8082LL_S		Units: µg/Kg		Prep Date: 11/10/2011		Run ID: GCK_111110A	
Client ID: ZZZZZ		Batch ID: 29950		TestNo: SW8082				Analysis Date: 11/10/2011		SeqNo: 792747	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	53.33	0.333	66.67	0	80	44.3	137	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: 1110255-09AMS	SampType: MS	TestCode: 8082LL_S	Units: µg/Kg-dry	Prep Date: 11/1/2011	Run ID: GCK_111102B						
Client ID: TP-21-S-4.0	Batch ID: 29867	TestNo: SW8082		Analysis Date: 11/2/2011	SeqNo: 790926						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	310.8	0.375	75.08	0	414	56.6	123	0	0		S,MI
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Sample ID: 1110255-13AMS	SampType: MS	TestCode: 8082LL_S	Units: µg/Kg-dry	Prep Date: 11/3/2011	Run ID: GCK_111104A						
Client ID: TP-22-S-10.0	Batch ID: 29889	TestNo: SW8082		Analysis Date: 11/4/2011	SeqNo: 791239						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	86.29	0.454	90.83	0	95	56.6	123	0	0		
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Sample ID: 1110255-07AMS		SampType: MS		TestCode: 8082LL_S		Units: µg/Kg-dry		Prep Date: 11/10/2011		Run ID: GCK_111110A	
Client ID: TP-20-S-10.0		Batch ID: 29950		TestNo: SW8082				Analysis Date: 11/10/2011		SeqNo: 792745	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	69.72	0.391	78.34	0	89	56.6	123	0	0		
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Sample ID: 1110255-09AMSD	SampType: MSD	TestCode: 8082LL_S	Units: µg/Kg-dry	Prep Date: 11/1/2011	Run ID: GCK_111102B						
Client ID: TP-21-S-4.0	Batch ID: 29867	TestNo: SW8082		Analysis Date: 11/2/2011	SeqNo: 790927						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	326.6	0.375	75.08	0	435	56.6	123	310.8	4.95	20	S,MI
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Sample ID: 1110255-13AMSD	SampType: MSD	TestCode: 8082LL_S	Units: µg/Kg-dry	Prep Date: 11/3/2011	Run ID: GCK_111104A						
Client ID: TP-22-S-10.0	Batch ID: 29889	TestNo: SW8082		Analysis Date: 11/4/2011	SeqNo: 791242						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	79.02	0.454	90.83	0	87	56.6	123	86.29	8.79	20	
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Sample ID: 1110255-07AMSD		SampType: MSD		TestCode: 8082LL_S		Units: µg/Kg-dry		Prep Date: 11/10/2011		Run ID: GCK_111110A	
Client ID: TP-20-S-10.0		Batch ID: 29950		TestNo: SW8082				Analysis Date: 11/10/2011		SeqNo: 792746	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

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Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: 1110255-07AMSD		SampType: MSD	TestCode: 8082LL_S		Units: µg/Kg-dry	Prep Date: 11/10/2011			Run ID: GCK_111110A		
Client ID: TP-20-S-10.0	Batch ID: 29950		TestNo: SW8082			Analysis Date: 11/10/2011			SeqNo: 792746		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	75.99	0.391	78.34	0	97	56.6	123	69.72	8.60	20	
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Sample ID: CCB-29867		SampType: CCB		TestCode: 8082LL_S		Units: µg/Kg		Prep Date:		Run ID: GCK_111102B			
Client ID: ZZZZZ		Batch ID: 29867		TestNo: SW8082				Analysis Date: 11/2/2011		SeqNo: 790934			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	ND	0.333	0	0	0	0	0	0	0		
Aroclor 1221	ND	0.333	0	0	0	0	0	0	0		
Aroclor 1232	ND	0.333	0	0	0	0	0	0	0		
Aroclor 1242	ND	0.333	0	0	0	0	0	0	0		
Aroclor 1248	ND	0.333	0	0	0	0	0	0	0		
Aroclor 1254	ND	0.333	0	0	0	0	0	0	0		
Aroclor 1260	ND	0.333	0	0	0	0	0	0	0		
Aroclor 1262	ND	0.333	0	0	0	0	0	0	0		
Aroclor 1268	ND	0.333	0	0	0	0	0	0	0		
Surr: Decachlorobiphenyl	6719	0	6667	0	101	56.5	130	0	0		

Sample ID: CCB		SampType: CCB		TestCode: 8082LL_S		Units: µg/Kg		Prep Date:		Run ID: GCK_111104A			
Client ID: ZZZZZ		Batch ID: 29889		TestNo: SW8082				Analysis Date: 11/8/2011		SeqNo: 791747			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1254	ND	0.333	0	0	0	0	0	0	0		
Aroclor 1260	ND	0.333	0	0	0	0	0	0	0		

Sample ID: CCV		SampType: CCV		TestCode: 8082LL_S		Units: µg/Kg		Prep Date:		Run ID: GCK_111102B	
Client ID: ZZZZZ		Batch ID: 29867		TestNo: SW8082				Analysis Date: 11/2/2011		SeqNo: 790923	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	66	0.333	66.67	0	99	85	115	0	0		
Aroclor 1254	66.67	0.333	66.67	0	100	85	115	0	0		
Aroclor 1260	66.67	0.333	66.67	0	100	85	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: CCV		SampType: CCV		TestCode: 8082LL_S		Units: µg/Kg		Prep Date:			Run ID: GCK_111102B		
Client ID: ZZZZZ		Batch ID: 29867		TestNo: SW8082		Analysis Date: 11/2/2011			SeqNo: 790932				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	58.67	0.333	66.67	0	88	85	115	0	0	
Aroclor 1254	74	0.333	66.67	0	111	85	115	0	0	
Aroclor 1260	63.33	0.333	66.67	0	95	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_111102B						
Client ID: ZZZZZ	Batch ID: 29867	TestNo: SW8082		Analysis Date: 11/2/2011	SeqNo: 790933						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	62.67	0.333	66.67	0	94	85	115	0	0	
Aroclor 1254	66.67	0.333	66.67	0	100	85	115	0	0	
Aroclor 1260	66.67	0.333	66.67	0	100	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_111102B						
Client ID: ZZZZZ	Batch ID: 29867	TestNo: SW8082		Analysis Date: 11/2/2011	SeqNo: 790940						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	65.33	0.333	66.67	0	98	85	115	0	0	
Aroclor 1254	56.67	0.333	66.67	0	85	85	115	0	0	
Aroclor 1260	62	0.333	66.67	0	93	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_111104A						
Client ID: ZZZZZ	Batch ID: 29889	TestNo: SW8082		Analysis Date: 11/4/2011	SeqNo: 791234						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	70.67	0.333	66.67	0	106	85	115	0	0	
Aroclor 1254	66.67	0.333	66.67	0	100	85	115	0	0	
Aroclor 1260	66.67	0.333	66.67	0	100	85	115	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: CCV		SampType: CCV		TestCode: 8082LL_S		Units: µg/Kg		Prep Date:		Run ID: GCK_111104A			
Client ID: ZZZZZ		Batch ID: 29889		TestNo: SW8082				Analysis Date: 11/4/2011		SeqNo: 791259			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	66.67	0.333	66.67	0	100	85	115	0	0	
Aroclor 1254	62	0.333	66.67	0	93	85	115	0	0	
Aroclor 1260	72	0.333	66.67	0	108	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_111104A						
Client ID: ZZZZZ	Batch ID: 29889	TestNo: SW8082		Analysis Date: 11/8/2011	SeqNo: 791746						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1254	66.67	0.333	66.67	0	100	85	115	0	0	
Aroclor 1260	66.67	0.333	66.67	0	100	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_111104A						
Client ID: ZZZZZ	Batch ID: 29889	TestNo: SW8082		Analysis Date: 11/8/2011	SeqNo: 791750						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1254	65.33	0.333	66.67	0	98	85	115	0	0	
Aroclor 1260	74.67	0.333	66.67	0	112	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_111110A						
Client ID: ZZZZZ	Batch ID: 29950	TestNo: SW8082		Analysis Date: 11/10/2011	SeqNo: 792614						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	64	0.333	66.67	0	96	85	115	0	0	
Aroclor 1260	66.67	0.333	66.67	0	100	85	115	0	0	

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_111110A						
Client ID: ZZZZZ	Batch ID: 29950	TestNo: SW8082		Analysis Date: 11/10/2011	SeqNo: 792748						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	71.33	0.333	66.67	0	107	85	115	0	0	
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Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_111110A						
Client ID: ZZZZZ	Batch ID: 29950	TestNo: SW8082		Analysis Date: 11/10/2011	SeqNo: 792748						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1260	62.67	0.333	66.67	0	94	85	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: MBLK-29933	SampType: MBLK	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/5/2011	SeqNo: 791896						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	10.0									
1,1,1-Trichloroethane	ND	10.0									
1,1,2,2-Tetrachloroethane	ND	10.0									
1,1,2-Trichloroethane	ND	10.0									
1,1-Dichloroethane	ND	10.0									
1,1-Dichloroethene	ND	10.0									
1,1-Dichloropropene	ND	10.0									
1,2,3-Trichlorobenzene	ND	10.0									
1,2,3-Trichloropropane	ND	10.0									
1,2,4-Trichlorobenzene	ND	10.0									
1,2,4-Trimethylbenzene	ND	10.0									
1,2-Dibromo-3-chloropropane	ND	10.0									
1,2-Dibromoethane	ND	10.0									
1,2-Dichlorobenzene	ND	10.0									
1,2-Dichloroethane	ND	10.0									
1,2-Dichloropropane	ND	10.0									
1,3,5-Trimethylbenzene	ND	10.0									
1,3-Dichlorobenzene	ND	10.0									
1,3-Dichloropropane	ND	10.0									
1,4-Dichlorobenzene	ND	10.0									
2,2-Dichloropropane	ND	10.0									
2-Butanone	ND	40.0									
2-Chlorotoluene	ND	10.0									
2-Hexanone	ND	20.0									
4-Chlorotoluene	ND	10.0									
4-Isopropyltoluene	ND	10.0									
4-Methyl-2-pentanone	ND	40.0									
Acetone	9.71	100									J
Benzene	ND	10.0									
Bromobenzene	ND	10.0									
Bromochloromethane	ND	10.0									

Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: MBLK-29933	SampType: MBLK	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/5/2011	SeqNo: 791896							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	ND	10.0									
Bromoform	ND	10.0									
Bromomethane	ND	10.0									
Carbon Disulfide	ND	10.0									
Carbon tetrachloride	ND	10.0									
Chlorobenzene	ND	10.0									
Chloroethane	ND	10.0									
Chloroform	ND	10.0									
Chloromethane	ND	10.0									
cis-1,2-Dichloroethene	ND	10.0									
cis-1,3-Dichloropropene	ND	10.0									
Dibromochloromethane	ND	10.0									
Dibromomethane	ND	10.0									
Dichlorodifluoromethane	ND	10.0									
Ethylbenzene	ND	10.0									
Hexachlorobutadiene	ND	10.0									
Isopropylbenzene	ND	10.0									
m,p-Xylene	ND	20.0									
Methyl tert-butyl ether	ND	10.0									
Methylene Chloride	4.48	50.0									J
n-Butylbenzene	ND	10.0									
n-Propylbenzene	ND	10.0									
Naphthalene	2.23	10.0									J
o-Xylene	ND	10.0									
sec-Butylbenzene	ND	10.0									
Styrene	ND	10.0									
tert-Butylbenzene	ND	10.0									
Tetrachloroethene	ND	10.0									
Toluene	1.17	10.0									J
trans-1,2-Dichloroethene	ND	10.0									
trans-1,3-Dichloropropene	ND	10.0									

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: MBLK-29933	SampType: MBLK	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/5/2011	SeqNo: 791896						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Trichloroethene	ND	10.0									
Trichlorofluoromethane	ND	10.0									
Vinyl Chloride	ND	10.0									
Surr: 1,2-Dichloroethane-d4	92.99	0	100	0	93	71.5	112	0	0		
Surr: 4-Bromofluorobenzene	82.13	0	100	0	82.1	75.7	122	0	0		
Surr: Dibromofluoromethane	99.8	0	100	0	99.8	64.3	124	0	0		
Surr: Toluene-d8	114.8	0	100	0	115	74.9	120	0	0		

Sample ID: LCS-29933		SampType: LCS		TestCode: 8260_5035		Units: ug/Kg		Prep Date:		Run ID: 5973J_111105A			
Client ID: ZZZZZ		Batch ID: 29933		TestNo: SW8260B				Analysis Date: 11/5/2011		SeqNo: 791895			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	56.81	10.0	60	0	94.7	65.4	133	0	0		
Benzene	63.26	10.0	60	0	105	78	123	0	0		
Chlorobenzene	59.57	10.0	60	0	99.3	79.5	125	0	0		
Toluene	58.35	10.0	60	0	97.2	77.5	132	0	0		
Trichloroethene	59.27	10.0	60	0	98.8	72.4	124	0	0		

Sample ID: LCSD-29933		SampType: LCSD		TestCode: 8260_5035		Units: ug/Kg		Prep Date:		Run ID: 5973J_111105A	
Client ID: ZZZZZ		Batch ID: 29933		TestNo: SW8260B				Analysis Date: 11/7/2011		SeqNo: 791901	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	49.98	10.0	60	0	83.3	65.4	133	56.81	12.8	20	
Benzene	65.47	10.0	60	0	109	78	123	63.26	3.43	20	
Chlorobenzene	58.19	10.0	60	0	97	79.5	125	59.57	2.34	20	
Toluene	61.07	10.0	60	0	102	77.5	132	58.35	4.56	20	
Trichloroethene	59.81	10.0	60	0	99.7	72.4	124	59.27	0.907	20	

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933		SampType: CCB		TestCode: 8260_5035		Units: ug/Kg		Prep Date:		Run ID: 5973J_111105A	
Client ID: ZZZZZ		Batch ID: 29933		TestNo: SW8260B		Analysis Date: 11/7/2011		SeqNo: 792100			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	10.0	0	0	0	0	0	0	0	0	
1,1,1-Trichloroethane	ND	10.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	ND	10.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	ND	10.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	ND	10.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	ND	10.0	0	0	0	0	0	0	0	0	
1,1-Dichloropropene	ND	10.0	0	0	0	0	0	0	0	0	
1,2,3-Trichlorobenzene	1.43	10.0	0	0	0	0	0	0	0	0	
1,2,3-Trichloropropane	ND	10.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	0.91	10.0	0	0	0	0	0	0	0	0	
1,2,4-Trimethylbenzene	ND	10.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	ND	10.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	ND	10.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	0.36	10.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	ND	10.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	ND	10.0	0	0	0	0	0	0	0	0	
1,3,5-Trimethylbenzene	ND	10.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	ND	10.0	0	0	0	0	0	0	0	0	
1,3-Dichloropropane	ND	10.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	0.53	10.0	0	0	0	0	0	0	0	0	
2,2-Dichloropropane	ND	10.0	0	0	0	0	0	0	0	0	
2-Butanone	ND	40.0	0	0	0	0	0	0	0	0	
2-Chlorotoluene	ND	10.0	0	0	0	0	0	0	0	0	
2-Hexanone	ND	20.0	0	0	0	0	0	0	0	0	
4-Chlorotoluene	ND	10.0	0	0	0	0	0	0	0	0	
4-Isopropyltoluene	ND	10.0	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	ND	40.0	0	0	0	0	0	0	0	0	
Acetone	13.26	100	0	0	0	0	0	0	0	0	
Benzene	ND	10.0	0	0	0	0	0	0	0	0	
Bromobenzene	ND	10.0	0	0	0	0	0	0	0	0	
Bromochloromethane	ND	10.0	0	0	0	0	0	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/7/2011	SeqNo: 792100						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	ND	10.0	0	0	0	0	0	0	0		
Bromoform	ND	10.0	0	0	0	0	0	0	0		
Bromomethane	ND	10.0	0	0	0	0	0	0	0		
Carbon Disulfide	ND	10.0	0	0	0	0	0	0	0		
Carbon tetrachloride	ND	10.0	0	0	0	0	0	0	0		
Chlorobenzene	ND	10.0	0	0	0	0	0	0	0		
Chloroethane	ND	10.0	0	0	0	0	0	0	0		
Chloroform	0.29	10.0	0	0	0	0	0	0	0		
Chloromethane	ND	10.0	0	0	0	0	0	0	0		
cis-1,2-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
cis-1,3-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
Dibromochloromethane	ND	10.0	0	0	0	0	0	0	0		
Dibromomethane	ND	10.0	0	0	0	0	0	0	0		
Dichlorodifluoromethane	ND	10.0	0	0	0	0	0	0	0		
Ethylbenzene	ND	10.0	0	0	0	0	0	0	0		
Hexachlorobutadiene	ND	10.0	0	0	0	0	0	0	0		
Isopropylbenzene	ND	10.0	0	0	0	0	0	0	0		
m,p-Xylene	ND	20.0	0	0	0	0	0	0	0		
Methyl tert-butyl ether	ND	10.0	0	0	0	0	0	0	0		
Methylene Chloride	22.86	50.0	0	0	0	0	0	0	0		
n-Butylbenzene	0.35	10.0	0	0	0	0	0	0	0		
n-Propylbenzene	0.15	10.0	0	0	0	0	0	0	0		
Naphthalene	2.78	10.0	0	0	0	0	0	0	0		
o-Xylene	ND	10.0	0	0	0	0	0	0	0		
sec-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
Styrene	ND	10.0	0	0	0	0	0	0	0		
tert-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
Tetrachloroethene	ND	10.0	0	0	0	0	0	0	0		
Toluene	0.9	10.0	0	0	0	0	0	0	0		
trans-1,2-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
trans-1,3-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/7/2011	SeqNo: 792100							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	ND	10.0	0	0	0	0	0	0	0		
Trichlorofluoromethane	ND	10.0	0	0	0	0	0	0	0		
Vinyl Chloride	ND	10.0	0	0	0	0	0	0	0		
Surr: 1,2-Dichloroethane-d4	99.04	0	100	0	99	71.5	112	0	0		
Surr: 4-Bromofluorobenzene	84.01	0	100	0	84	75.7	122	0	0		
Surr: Dibromofluoromethane	99.21	0	100	0	99.2	64.3	124	0	0		
Surr: Toluene-d8	122.1	0	100	0	122	74.9	120	0	0		S

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:				Run ID: 5973J_111105A			
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/8/2011				SeqNo: 792107			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,1-Trichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,2,2-Tetrachloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,2-Trichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
1,2,3-Trichlorobenzene	0.76	10.0	0	0	0	0	0	0	0		
1,2,3-Trichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,2,4-Trichlorobenzene	0.55	10.0	0	0	0	0	0	0	0		
1,2,4-Trimethylbenzene	ND	10.0	0	0	0	0	0	0	0		
1,2-Dibromo-3-chloropropane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dibromoethane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,3,5-Trimethylbenzene	ND	10.0	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	ND	10.0	0	0	0	0	0	0	0		
1,3-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:				Run ID: 5973J_111105A			
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/8/2011				SeqNo: 792107			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.36	10.0	0	0	0	0	0	0	0		
2,2-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
2-Butanone	ND	40.0	0	0	0	0	0	0	0		
2-Chlorotoluene	ND	10.0	0	0	0	0	0	0	0		
2-Hexanone	ND	20.0	0	0	0	0	0	0	0		
4-Chlorotoluene	ND	10.0	0	0	0	0	0	0	0		
4-Isopropyltoluene	ND	10.0	0	0	0	0	0	0	0		
4-Methyl-2-pentanone	ND	40.0	0	0	0	0	0	0	0		
Acetone	10.7	100	0	0	0	0	0	0	0		
Benzene	ND	10.0	0	0	0	0	0	0	0		
Bromobenzene	ND	10.0	0	0	0	0	0	0	0		
Bromochloromethane	ND	10.0	0	0	0	0	0	0	0		
Bromodichloromethane	ND	10.0	0	0	0	0	0	0	0		
Bromoform	ND	10.0	0	0	0	0	0	0	0		
Bromomethane	ND	10.0	0	0	0	0	0	0	0		
Carbon Disulfide	ND	10.0	0	0	0	0	0	0	0		
Carbon tetrachloride	ND	10.0	0	0	0	0	0	0	0		
Chlorobenzene	ND	10.0	0	0	0	0	0	0	0		
Chloroethane	ND	10.0	0	0	0	0	0	0	0		
Chloroform	0.33	10.0	0	0	0	0	0	0	0		
Chloromethane	ND	10.0	0	0	0	0	0	0	0		
cis-1,2-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
cis-1,3-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
Dibromochloromethane	ND	10.0	0	0	0	0	0	0	0		
Dibromomethane	ND	10.0	0	0	0	0	0	0	0		
Dichlorodifluoromethane	ND	10.0	0	0	0	0	0	0	0		
Ethylbenzene	0.12	10.0	0	0	0	0	0	0	0		
Hexachlorobutadiene	ND	10.0	0	0	0	0	0	0	0		
Isopropylbenzene	ND	10.0	0	0	0	0	0	0	0		
m,p-Xylene	ND	20.0	0	0	0	0	0	0	0		
Methyl tert-butyl ether	ND	10.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/8/2011	SeqNo: 792107							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene Chloride	23.21	50.0	0	0	0	0	0	0	0		
n-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
n-Propylbenzene	ND	10.0	0	0	0	0	0	0	0		
Naphthalene	1.65	10.0	0	0	0	0	0	0	0		
o-Xylene	ND	10.0	0	0	0	0	0	0	0		
sec-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
Styrene	ND	10.0	0	0	0	0	0	0	0		
tert-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
Tetrachloroethene	ND	10.0	0	0	0	0	0	0	0		
Toluene	1.18	10.0	0	0	0	0	0	0	0		
trans-1,2-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
trans-1,3-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
Trichloroethene	ND	10.0	0	0	0	0	0	0	0		
Trichlorofluoromethane	ND	10.0	0	0	0	0	0	0	0		
Vinyl Chloride	ND	10.0	0	0	0	0	0	0	0		
Surr: 1,2-Dichloroethane-d4	89.75	0	100	0	89.8	71.5	112	0	0		
Surr: 4-Bromofluorobenzene	86.42	0	100	0	86.4	75.7	122	0	0		
Surr: Dibromofluoromethane	98.36	0	100	0	98.4	64.3	124	0	0		
Surr: Toluene-d8	127.5	0	100	0	128	74.9	120	0	0		S

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/9/2011	SeqNo: 792280							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,1-Trichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,2,2-Tetrachloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,2-Trichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/9/2011	SeqNo: 792280							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,3-Trichlorobenzene	1.8	10.0	0	0	0	0	0	0	0		
1,2,3-Trichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,2,4-Trichlorobenzene	1.15	10.0	0	0	0	0	0	0	0		
1,2,4-Trimethylbenzene	ND	10.0	0	0	0	0	0	0	0		
1,2-Dibromo-3-chloropropane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dibromoethane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	0.43	10.0	0	0	0	0	0	0	0		
1,2-Dichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,3,5-Trimethylbenzene	ND	10.0	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	ND	10.0	0	0	0	0	0	0	0		
1,3-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,4-Dichlorobenzene	0.71	10.0	0	0	0	0	0	0	0		
2,2-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
2-Butanone	ND	40.0	0	0	0	0	0	0	0		
2-Chlorotoluene	ND	10.0	0	0	0	0	0	0	0		
2-Hexanone	ND	20.0	0	0	0	0	0	0	0		
4-Chlorotoluene	ND	10.0	0	0	0	0	0	0	0		
4-Isopropyltoluene	ND	10.0	0	0	0	0	0	0	0		
4-Methyl-2-pentanone	ND	40.0	0	0	0	0	0	0	0		
Acetone	5.9	100	0	0	0	0	0	0	0		
Benzene	ND	10.0	0	0	0	0	0	0	0		
Bromobenzene	ND	10.0	0	0	0	0	0	0	0		
Bromochloromethane	ND	10.0	0	0	0	0	0	0	0		
Bromodichloromethane	ND	10.0	0	0	0	0	0	0	0		
Bromoform	ND	10.0	0	0	0	0	0	0	0		
Bromomethane	ND	10.0	0	0	0	0	0	0	0		
Carbon Disulfide	ND	10.0	0	0	0	0	0	0	0		
Carbon tetrachloride	ND	10.0	0	0	0	0	0	0	0		
Chlorobenzene	ND	10.0	0	0	0	0	0	0	0		
Chloroethane	ND	10.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B	Analysis Date: 11/9/2011	SeqNo: 792280							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	10.0	0	0	0	0	0	0	0		
Chloromethane	ND	10.0	0	0	0	0	0	0	0		
cis-1,2-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
cis-1,3-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
Dibromochloromethane	ND	10.0	0	0	0	0	0	0	0		
Dibromomethane	ND	10.0	0	0	0	0	0	0	0		
Dichlorodifluoromethane	ND	10.0	0	0	0	0	0	0	0		
Ethylbenzene	ND	10.0	0	0	0	0	0	0	0		
Hexachlorobutadiene	0.53	10.0	0	0	0	0	0	0	0		
Isopropylbenzene	ND	10.0	0	0	0	0	0	0	0		
m,p-Xylene	ND	20.0	0	0	0	0	0	0	0		
Methyl tert-butyl ether	ND	10.0	0	0	0	0	0	0	0		
Methylene Chloride	ND	50.0	0	0	0	0	0	0	0		
n-Butylbenzene	0.42	10.0	0	0	0	0	0	0	0		
n-Propylbenzene	0.16	10.0	0	0	0	0	0	0	0		
Naphthalene	3.21	10.0	0	0	0	0	0	0	0		
o-Xylene	ND	10.0	0	0	0	0	0	0	0		
sec-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
Styrene	ND	10.0	0	0	0	0	0	0	0		
tert-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
Tetrachloroethene	ND	10.0	0	0	0	0	0	0	0		
Toluene	0.87	10.0	0	0	0	0	0	0	0		
trans-1,2-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
trans-1,3-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
Trichloroethene	ND	10.0	0	0	0	0	0	0	0		
Trichlorofluoromethane	ND	10.0	0	0	0	0	0	0	0		
Vinyl Chloride	ND	10.0	0	0	0	0	0	0	0		
Surr: 1,2-Dichloroethane-d4	86.9	0	100	0	86.9	71.5	112	0	0		
Surr: 4-Bromofluorobenzene	96.67	0	100	0	96.7	75.7	122	0	0		
Surr: Dibromofluoromethane	91.21	0	100	0	91.2	64.3	124	0	0		
Surr: Toluene-d8	114.8	0	100	0	115	74.9	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:				Run ID: 5973J_111105A			
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/10/2011				SeqNo: 792593			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,1-Trichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,2,2-Tetrachloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1,2-Trichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
1,1-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
1,2,3-Trichlorobenzene	1.4	10.0	0	0	0	0	0	0	0		
1,2,3-Trichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,2,4-Trichlorobenzene	0.85	10.0	0	0	0	0	0	0	0		
1,2,4-Trimethylbenzene	ND	10.0	0	0	0	0	0	0	0		
1,2-Dibromo-3-chloropropane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dibromoethane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichloroethane	ND	10.0	0	0	0	0	0	0	0		
1,2-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,3,5-Trimethylbenzene	ND	10.0	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	ND	10.0	0	0	0	0	0	0	0		
1,3-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
1,4-Dichlorobenzene	0.46	10.0	0	0	0	0	0	0	0		
2,2-Dichloropropane	ND	10.0	0	0	0	0	0	0	0		
2-Butanone	ND	40.0	0	0	0	0	0	0	0		
2-Chlorotoluene	ND	10.0	0	0	0	0	0	0	0		
2-Hexanone	ND	20.0	0	0	0	0	0	0	0		
4-Chlorotoluene	ND	10.0	0	0	0	0	0	0	0		
4-Isopropyltoluene	ND	10.0	0	0	0	0	0	0	0		
4-Methyl-2-pentanone	ND	40.0	0	0	0	0	0	0	0		
Acetone	8.05	100	0	0	0	0	0	0	0		
Benzene	ND	10.0	0	0	0	0	0	0	0		
Bromobenzene	ND	10.0	0	0	0	0	0	0	0		
Bromochloromethane	ND	10.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933	SampType: CCB	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/10/2011	SeqNo: 792593						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	ND	10.0	0	0	0	0	0	0	0		
Bromoform	ND	10.0	0	0	0	0	0	0	0		
Bromomethane	ND	10.0	0	0	0	0	0	0	0		
Carbon Disulfide	ND	10.0	0	0	0	0	0	0	0		
Carbon tetrachloride	ND	10.0	0	0	0	0	0	0	0		
Chlorobenzene	ND	10.0	0	0	0	0	0	0	0		
Chloroethane	ND	10.0	0	0	0	0	0	0	0		
Chloroform	0.23	10.0	0	0	0	0	0	0	0		
Chloromethane	ND	10.0	0	0	0	0	0	0	0		
cis-1,2-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
cis-1,3-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		
Dibromochloromethane	ND	10.0	0	0	0	0	0	0	0		
Dibromomethane	ND	10.0	0	0	0	0	0	0	0		
Dichlorodifluoromethane	ND	10.0	0	0	0	0	0	0	0		
Ethylbenzene	0.14	10.0	0	0	0	0	0	0	0		
Hexachlorobutadiene	ND	10.0	0	0	0	0	0	0	0		
Isopropylbenzene	ND	10.0	0	0	0	0	0	0	0		
m,p-Xylene	ND	20.0	0	0	0	0	0	0	0		
Methyl tert-butyl ether	ND	10.0	0	0	0	0	0	0	0		
Methylene Chloride	ND	50.0	0	0	0	0	0	0	0		
n-Butylbenzene	0.29	10.0	0	0	0	0	0	0	0		
n-Propylbenzene	ND	10.0	0	0	0	0	0	0	0		
Naphthalene	2.51	10.0	0	0	0	0	0	0	0		
o-Xylene	ND	10.0	0	0	0	0	0	0	0		
sec-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
Styrene	ND	10.0	0	0	0	0	0	0	0		
tert-Butylbenzene	ND	10.0	0	0	0	0	0	0	0		
Tetrachloroethene	ND	10.0	0	0	0	0	0	0	0		
Toluene	0.88	10.0	0	0	0	0	0	0	0		
trans-1,2-Dichloroethene	ND	10.0	0	0	0	0	0	0	0		
trans-1,3-Dichloropropene	ND	10.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCB-29933		SampType: CCB		TestCode: 8260_5035		Units: ug/Kg		Prep Date:		Run ID: 5973J_111105A			
Client ID: ZZZZZ		Batch ID: 29933		TestNo: SW8260B				Analysis Date: 11/10/2011		SeqNo: 792593			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Trichloroethene	ND	10.0	0	0	0	0	0	0	0		
Trichlorofluoromethane	ND	10.0	0	0	0	0	0	0	0		
Vinyl Chloride	ND	10.0	0	0	0	0	0	0	0		
Surr: 1,2-Dichloroethane-d4	89.47	0	100	0	89.5	71.5	112	0	0		
Surr: 4-Bromofluorobenzene	96.33	0	100	0	96.3	75.7	122	0	0		
Surr: Dibromofluoromethane	100.6	0	100	0	101	64.3	124	0	0		
Surr: Toluene-d8	114.2	0	100	0	114	74.9	120	0	0		

Sample ID: CCV-29933		SampType: CCV		TestCode: 8260_5035		Units: ug/Kg		Prep Date:			Run ID: 5973J_111105A	
Client ID: ZZZZZ		Batch ID: 29933		TestNo: SW8260B		Analysis Date: 11/5/2011			SeqNo: 791894			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

1,1-Dichloroethene	58.58	10.0	60	0	97.6	80	120	0	0		
1,2-Dichloropropane	58.13	10.0	60	0	96.9	80	120	0	0		
Chloroform	61.35	10.0	60	0	102	80	120	0	0		
Ethylbenzene	63.22	10.0	60	0	105	80	120	0	0		
Toluene	59.22	10.0	60	0	98.7	80	120	0	0		
Vinyl Chloride	49.6	10.0	60	0	82.7	80	120	0	0		

Sample ID: CCV-29933		SampType: CCV		TestCode: 8260_5035		Units: ug/Kg		Prep Date:		Run ID: 5973J_111105A	
Client ID: ZZZZZ		Batch ID: 29933		TestNo: SW8260B				Analysis Date: 11/7/2011		SeqNo: 791900	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	52.58	10.0	60	0	87.6	80	120	0	0		
1,2-Dichloropropane	56.44	10.0	60	0	94.1	80	120	0	0		
Chloroform	60.51	10.0	60	0	101	80	120	0	0		
Ethylbenzene	59.11	10.0	60	0	98.5	80	120	0	0		
Toluene	60.18	10.0	60	0	100	80	120	0	0		
Vinyl Chloride	71.55	10.0	60	0	119	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCV-29933		SampType: CCV		TestCode: 8260_5035		Units: ug/Kg		Prep Date:		Run ID: 5973J_111105A			
Client ID: ZZZZZ		Batch ID: 29933		TestNo: SW8260B				Analysis Date: 11/8/2011		SeqNo: 791903			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene
1,2-Dichloropropane
Chloroform
Ethylbenzene
Toluene
Vinyl Chloride

53.29
57.99
61.53
56.87
61.67
50.61

10.0
10.0
10.0
10.0
10.0
10.0

60
60
60
60
60
60

0
0
0
0
0
0

88.8
96.7
103
94.8
103
84.4

80
80
80
80
80
80

120
120
120
120
120
120

0
0
0
0
0
0

0
0
0
0
0
0

Sample ID: CCV-29933	SampType: CCV	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/7/2011	SeqNo: 792098						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene
1,2-Dichloropropane
Chloroform
Ethylbenzene
Toluene
Vinyl Chloride

52.58
56.44
60.51
59.11
60.18
71.55

10.0
10.0
10.0
10.0
10.0
10.0

60
60
60
60
60
60

0
0
0
0
0
0

87.6
94.1
101
98.5
100
119

80
80
80
80
80
80

120
120
120
120
120
120

0
0
0
0
0
0

0
0
0
0
0
0

Sample ID: CCV-29933		SampType: CCV		TestCode: 8260_5035		Units: ug/Kg		Prep Date:		Run ID: 5973J_111105A	
Client ID: ZZZZZ		Batch ID: 29933		TestNo: SW8260B				Analysis Date: 11/8/2011		SeqNo: 792106	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene
1,2-Dichloropropane
Chloroform
Ethylbenzene
Toluene
Vinyl Chloride

53.29
57.99
61.53
56.87
61.67
50.61

10.0
10.0
10.0
10.0
10.0
10.0

60
60
60
60
60
60

0
0
0
0
0
0

88.8
96.7
103
94.8
103
84.4

80
80
80
80
80
80

120
120
120
120
120
120

0
0
0
0
0
0

0
0
0
0
0
0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCV-29933	SampType: CCV	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5973J_111105A						
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/9/2011	SeqNo: 792279						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	71.98	10.0	60	0	120	80	120	0	0		
1,2-Dichloropropane	62.37	10.0	60	0	104	80	120	0	0		
Chloroform	60.96	10.0	60	0	102	80	120	0	0		
Ethylbenzene	59.51	10.0	60	0	99.2	80	120	0	0		
Toluene	59.27	10.0	60	0	98.8	80	120	0	0		
Vinyl Chloride	67.21	10.0	60	0	112	80	120	0	0		

Sample ID: CCV-29933	SampType: CCV	TestCode: 8260_5035	Units: ug/Kg	Prep Date:					Run ID: 5973J_111105A		
Client ID: ZZZZZ	Batch ID: 29933	TestNo: SW8260B		Analysis Date: 11/10/2011					SeqNo: 792592		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	58.8	10.0	60	0	98	80	120	0	0		
1,2-Dichloropropane	59.61	10.0	60	0	99.4	80	120	0	0		
Chloroform	57.59	10.0	60	0	96	80	120	0	0		
Ethylbenzene	58.05	10.0	60	0	96.8	80	120	0	0		
Toluene	54.31	10.0	60	0	90.5	80	120	0	0		
Vinyl Chloride	48.7	10.0	60	0	81.2	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: MB-29888	SampType: MBLK	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 11/3/2011	Run ID: CVAA_111103A
Client ID: ZZZZZ	Batch ID: 29888	TestNo: SW7471		Analysis Date: 11/3/2011	SeqNo: 790580
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury ND 0.0167

Sample ID: MB-29920	SampType: MBLK	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 11/8/2011	Run ID: CVAA_111108A
Client ID: ZZZZZ	Batch ID: 29920	TestNo: SW7471		Analysis Date: 11/8/2011	SeqNo: 791670
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury ND 0.0167

Sample ID: LCS-29888	SampType: LCS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 11/3/2011	Run ID: CVAA_111103A
Client ID: ZZZZZ	Batch ID: 29888	TestNo: SW7471		Analysis Date: 11/3/2011	SeqNo: 790579
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.2514 0.0167 0.25 0 101 88.2 113 0 0

Sample ID: LCS-29920	SampType: LCS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 11/8/2011	Run ID: CVAA_111108A
Client ID: ZZZZZ	Batch ID: 29920	TestNo: SW7471		Analysis Date: 11/8/2011	SeqNo: 791669
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.2528 0.0167 0.25 0 101 88.2 113 0 0

Sample ID: 1110255-31AMS	SampType: MS	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 11/3/2011	Run ID: CVAA_111103A
Client ID: TP-29-S-1.0	Batch ID: 29888	TestNo: SW7471		Analysis Date: 11/3/2011	SeqNo: 790577
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 1.235 0.163 0.2442 2.117 -361 78.1 125 0 0 S,MC

Sample ID: 1110243-13AMS	SampType: MS	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 11/8/2011	Run ID: CVAA_111108A
Client ID: ZZZZZ	Batch ID: 29920	TestNo: SW7471		Analysis Date: 11/8/2011	SeqNo: 791661
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: 1110243-13AMS	SampType: MS	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 11/8/2011	Run ID: CVAA_111108A						
Client ID: ZZZZZ	Batch ID: 29920	TestNo: SW7471		Analysis Date: 11/8/2011	SeqNo: 791661						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	1.345	0.167	0.2506	1.121	89.2	78.1	125	0	0		
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Sample ID: 1110255-31AMSD		SampType: MSD		TestCode: HG_CTS		Units: mg/Kg-dry		Prep Date: 11/3/2011		Run ID: CVAA_111103A	
Client ID: TP-29-S-1.0		Batch ID: 29888		TestNo: SW7471				Analysis Date: 11/3/2011		SeqNo: 790578	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	1.384	0.173	0.2586	2.117	-284	78.1	125	1.235	11.3	20	S,MC
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Sample ID: 1110243-13AMSD	SampType: MSD	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 11/8/2011	Run ID: CVAA_111108A						
Client ID: ZZZZZ	Batch ID: 29920	TestNo: SW7471		Analysis Date: 11/8/2011	SeqNo: 791662						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	1.291	0.163	0.2437	1.121	69.8	78.1	125	1.345	4.07	20	S,MC
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Sample ID: 1110255-31ADUP		SampType: DUP		TestCode: HG_CTS		Units: mg/Kg-dry		Prep Date: 11/3/2011		Run ID: CVAA_111103A	
Client ID: TP-29-S-1.0		Batch ID: 29888		TestNo: SW7471				Analysis Date: 11/3/2011		SeqNo: 790576	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	1.605	0.159	0	0	0	0	0	2.117	27.5	20	R,MI
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Sample ID: 1110243-13ADUP	SampType: DUP	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 11/8/2011	Run ID: CVAA_111108A						
Client ID: ZZZZZ	Batch ID: 29920	TestNo: SW7471		Analysis Date: 11/8/2011	SeqNo: 791660						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	1.216	0.167	0	0	0	0	0	1.121	8.13	20	
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Sample ID: CCV		SampType: CCV		TestCode: HG_CTS		Units: mg/Kg		Prep Date:			Run ID: CVAA_111103A	
Client ID: ZZZZZ		Batch ID: 29888		TestNo: SW7471		Analysis Date: 11/3/2011			SeqNo: 790581			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: CCV		SampType: CCV		TestCode: HG_CTS		Units: mg/Kg		Prep Date:		Run ID: CVAA_111103A			
Client ID: ZZZZZ		Batch ID: 29888		TestNo: SW7471				Analysis Date: 11/3/2011		SeqNo: 790581			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.2379	0.0167	0.25	0	95.2	90	110	0	0	
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Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_111103A						
Client ID: ZZZZZ	Batch ID: 29888	TestNo: SW7471		Analysis Date: 11/3/2011	SeqNo: 790582						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.2294	0.0167	0.25	0	91.8	90	110	0	0	
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Sample ID: CCV		SampType: CCV		TestCode: HG_CTS		Units: mg/Kg		Prep Date:		Run ID: CVAA_111108A	
Client ID: ZZZZZ		Batch ID: 29920		TestNo: SW7471				Analysis Date: 11/8/2011		SeqNo: 791668	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.2458	0.0167	0.25	0	98.3	90	110	0	0	
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Sample ID: CCV		SampType: CCV		TestCode: HG_CTS		Units: mg/Kg		Prep Date:			Run ID: CVAA_111108A	
Client ID: ZZZZZ		Batch ID: 29920		TestNo: SW7471		Analysis Date: 11/8/2011			SeqNo: 791671			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Mercury	0.2456	0.0167	0.25	0	98.2	90	110	0	0	
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Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: MB-29866	SampType: MBLK	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 11/1/2011	Run ID: GC-M_111104E						
Client ID: ZZZZZ	Batch ID: 29866	TestNo: NWTPH-Dx		Analysis Date: 11/4/2011	SeqNo: 791201						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	27.36	0	33.33	0	82.1	50	150	0	0		

Sample ID: MB-29949	SampType: MBLK	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 11/10/2011	Run ID: GC-M_111110A						
Client ID: ZZZZZ	Batch ID: 29949	TestNo: NWTPH-Dx		Analysis Date: 11/10/2011	SeqNo: 792607						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	33.65	0	33.33	0	101	50	150	0	0		

Sample ID: LCS-29866	SampType: LCS	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 11/1/2011	Run ID: GC-M_111104E						
Client ID: ZZZZZ	Batch ID: 29866	TestNo: NWTPH-Dx		Analysis Date: 11/4/2011	SeqNo: 791202						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	157	15.0	166.6	0	94.2	76.3	125	0	0		
Lube Oil	187.8	50.0	166.6	0	113	69.9	127	0	0		

Sample ID: LCS-R70083	SampType: LCS	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 11/10/2011	Run ID: GC-M_111110A						
Client ID: ZZZZZ	Batch ID: 29949	TestNo: NWTPH-Dx		Analysis Date: 11/10/2011	SeqNo: 792613						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	166.3	15.0	166.6	0	99.8	76.3	125	0	0		
Lube Oil	188.8	50.0	166.6	0	113	69.9	127	0	0		

Sample ID: 1110255-25ADUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 11/1/2011	Run ID: GC-M_111104E						
Client ID: TP-27-S-1.0	Batch ID: 29866	TestNo: NWTPH-Dx		Analysis Date: 11/4/2011	SeqNo: 791426						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: 1110255-25ADUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 11/1/2011	Run ID: GC-M_111104E						
Client ID: TP-27-S-1.0	Batch ID: 29866	TestNo: NWTPH-Dx		Analysis Date: 11/4/2011	SeqNo: 791426						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	18.6	0	0	0	0	0	0	0	20	
Lube Oil	ND	62.0	0	0	0	0	0	21.85	0	20	

Sample ID: 1110255-20ADUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 11/10/2011	Run ID: GC-M_111110A						
Client ID: TP-25-S-3.0	Batch ID: 29949	TestNo: NWTPH-Dx		Analysis Date: 11/10/2011	SeqNo: 792609						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	16.59	18.1	0	0	0	0	0	21.27	0	20	J
Lube Oil	66.79	60.2	0	0	0	0	0	100.5	40.3	20	RF

Sample ID: CCB-29866	SampType: CCB	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 11/1/2011	Run ID: GC-M_111104E						
Client ID: ZZZZZ	Batch ID: 29866	TestNo: NWTPH-Dx		Analysis Date: 11/4/2011	SeqNo: 791425						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	2.943	15.0	0	0	0	0	0	0	0		
Lube Oil	21.76	50.0	0	0	0	0	0	0	0		
Surr: o-Terphenyl	29.49	0	33.33	0	88.5	50	150	0	0		

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_111104E	
Client ID: ZZZZZ		Batch ID: 29866		TestNo: NWTPH-Dx				Analysis Date: 11/4/2011		SeqNo: 791200	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	899.8	15.0	1026	0	87.7	85	115	0	0		
Lube Oil	509.1	50.0	528.4	0	96.4	85	115	0	0		

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_111104E	
Client ID: ZZZZZ		Batch ID: 29866		TestNo: NWTPH-Dx				Analysis Date: 11/4/2011		SeqNo: 791207	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1313	15.0	1368	0	95.9	85	115	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S Units: mg/Kg				Prep Date:			Run ID: GC-M_111104E		
Client ID: ZZZZZ	Batch ID: 29866	TestNo: NWTPH-Dx				Analysis Date: 11/4/2011			SeqNo: 791207		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lube Oil	748.8	50.0	711.2	0	105	85	115	0	0		
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Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S Units: mg/Kg				Prep Date:			Run ID: GC-M_111104E		
Client ID: ZZZZZ	Batch ID: 29866	TestNo: NWTPH-Dx				Analysis Date: 11/4/2011			SeqNo: 791424		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	995.8	15.0	1026	0	97	85	115	0	0		
Lube Oil	567	50.0	528.4	0	107	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S Units: mg/Kg				Prep Date:			Run ID: GC-M_111104E		
Client ID: ZZZZZ	Batch ID: 29866	TestNo: NWTPH-Dx				Analysis Date: 11/4/2011			SeqNo: 791431		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1375	15.0	1368	0	100	85	115	0	0		
Lube Oil	740.2	50.0	704.5	0	105	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S Units: mg/Kg				Prep Date:			Run ID: GC-M_111110A		
Client ID: ZZZZZ	Batch ID: 29949	TestNo: NWTPH-Dx				Analysis Date: 11/10/2011			SeqNo: 792606		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1486	15.0	1368	0	109	85	115	0	0		
Lube Oil	713.7	50.0	704.5	0	101	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S Units: mg/Kg				Prep Date:			Run ID: GC-M_111110A		
Client ID: ZZZZZ	Batch ID: 29949	TestNo: NWTPH-Dx				Analysis Date: 11/10/2011			SeqNo: 792771		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1128	15.0	1026	0	110	85	115	0	0		
Lube Oil	570.1	50.0	528.4	0	108	85	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: MB-29868	SampType: MBLK	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/1/2011	Run ID: 5973G_111108A						
Client ID: ZZZZZ	Batch ID: 29868	TestNo: 8270SIM		Analysis Date: 11/8/2011	SeqNo: 791742						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	6.67									
2-Methylnaphthalene	2	6.67									J
Acenaphthene	ND	6.67									
Acenaphthylene	ND	6.67									
Anthracene	0.6667	6.67									J
Benz(a)anthracene	3.333	6.67									J
Benzo(a)pyrene	6	6.67									J
Benzo(b)fluoranthene	6	6.67									J
Benzo(g,h,i)perylene	5.333	6.67									J
Benzo(k)fluoranthene	6	6.67									J
Chrysene	4	6.67									J
Dibenz(a,h)anthracene	4	6.67									J
Fluoranthene	0.6667	6.67									J
Fluorene	ND	6.67									
Indeno(1,2,3-cd)pyrene	4	6.67									J
Naphthalene	3.333	6.67									J
Phenanthrene	1.333	6.67									J
Pyrene	ND	6.67									
Surr: 2-Fluorobiphenyl	4735	0	6667	0	71	42.6	128	0	0		
Surr: Nitrobenzene-d5	4479	0	6667	0	67.2	21.7	155	0	0		
Surr: p-Terphenyl-d14	5881	0	6667	0	88.2	44.9	155	0	0		

Sample ID: MB-29891	SampType: MBLK	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/3/2011	Run ID: 5973G_111110A						
Client ID: ZZZZZ	Batch ID: 29891	TestNo: 8270SIM		Analysis Date: 11/9/2011	SeqNo: 792262						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	6.67									
2-Methylnaphthalene	ND	6.67									
Acenaphthene	ND	6.67									
Acenaphthylene	ND	6.67									
Anthracene	0.6667	6.67									J

Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: MB-29891	SampType: MBLK	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/3/2011	Run ID: 5973G_111110A						
Client ID: ZZZZZ	Batch ID: 29891	TestNo: 8270SIM		Analysis Date: 11/9/2011	SeqNo: 792262						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	4.667	6.67									J
Benzo(a)pyrene	5.333	6.67									J
Benzo(b)fluoranthene	5.333	6.67									J
Benzo(g,h,i)perylene	6	6.67									J
Benzo(k)fluoranthene	2.667	6.67									J
Chrysene	6	6.67									J
Dibenz(a,h)anthracene	2.667	6.67									J
Fluoranthene	4	6.67									J
Fluorene	ND	6.67									
Indeno(1,2,3-cd)pyrene	4.667	6.67									J
Naphthalene	1.333	6.67									J
Phenanthrene	1.333	6.67									J
Pyrene	6	6.67									J
Surr: 2-Fluorobiphenyl	3828	0	6667	0	57.4	42.6	128	0	0		
Surr: Nitrobenzene-d5	4010	0	6667	0	60.1	21.7	155	0	0		
Surr: p-Terphenyl-d14	4624	0	6667	0	69.4	44.9	155	0	0		

Sample ID: LCS-29868	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/1/2011	Run ID: 5973G_111108A						
Client ID: ZZZZZ	Batch ID: 29868	TestNo: 8270SIM		Analysis Date: 11/8/2011	SeqNo: 791745						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	276	6.67	333.3	0	82.8	39.6	107	0	0		
Benzo(g,h,i)perylene	270	6.67	333.3	0	81	49.7	135	0	0		
Chrysene	274	6.67	333.3	0	82.2	57.1	130	0	0		
Naphthalene	257.3	6.67	333.3	0	77.2	29.1	109	0	0		
Phenanthrene	290	6.67	333.3	0	87	48.4	115	0	0		
Pyrene	301.3	6.67	333.3	0	90.4	47.2	134	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: LCS-29891	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 11/3/2011	Run ID: 5973G_111110A						
Client ID: ZZZZZ	Batch ID: 29891	TestNo: 8270SIM		Analysis Date: 11/9/2011	SeqNo: 792263						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	185.3	6.67	333.3	0	55.6	39.6	107	0	0		
Benzo(g,h,i)perylene	186.7	6.67	333.3	0	56	49.7	135	0	0		
Chrysene	212.7	6.67	333.3	0	63.8	57.1	130	0	0		
Naphthalene	168	6.67	333.3	0	50.4	29.1	109	0	0		
Phenanthrene	205.3	6.67	333.3	0	61.6	48.4	115	0	0		
Pyrene	244	6.67	333.3	0	73.2	47.2	134	0	0		

Sample ID: 1110255-28AMS	SampType: MS	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 11/1/2011	Run ID: 5973G_111108A						
Client ID: TP-28-S-1.0	Batch ID: 29868	TestNo: 8270SIM		Analysis Date: 11/8/2011	SeqNo: 791936						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	256.3	8.07	403.1	0	63.6	33.7	111	0	0		
Benzo(g,h,i)perylene	268.4	8.07	403.1	9.674	64.2	15	128	0	0		
Chrysene	279.7	8.07	403.1	5.643	68	37.5	125	0	0		
Naphthalene	211.2	8.07	403.1	2.418	51.8	27.7	108	0	0		
Phenanthrene	281.3	8.07	403.1	0.8061	69.6	20.2	139	0	0		
Pyrene	298.3	8.07	403.1	1.612	73.6	26.8	142	0	0		

Sample ID: 1110255-13AMS	SampType: MS	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 11/3/2011	Run ID: 5973G_111110A						
Client ID: TP-22-S-10.0	Batch ID: 29891	TestNo: 8270SIM		Analysis Date: 11/10/2011	SeqNo: 792604						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	262.5	9.09	454.1	0	57.8	33.7	111	0	0		
Benzo(g,h,i)perylene	293.4	9.09	454.1	7.266	63	15	128	0	0		
Chrysene	322.4	9.09	454.1	5.45	69.8	37.5	125	0	0		
Naphthalene	233.4	9.09	454.1	3.633	50.6	27.7	108	0	0		
Phenanthrene	328.8	9.09	454.1	3.633	71.6	20.2	139	0	0		
Pyrene	438.7	9.09	454.1	9.083	94.6	26.8	142	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: 1110255-28AMSD	SampType: MSD	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 11/1/2011	Run ID: 5973G_111108A						
Client ID: TP-28-S-1.0	Batch ID: 29868	TestNo: 8270SIM		Analysis Date: 11/8/2011	SeqNo: 791937						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	221.7	8.07	403.1	0	55	33.7	111	256.3	14.5	20	
Benzo(g,h,i)perylene	258.8	8.07	403.1	9.674	61.8	15	128	268.4	3.67	20	
Chrysene	261.2	8.07	403.1	5.643	63.4	37.5	125	279.7	6.86	20	
Naphthalene	190.2	8.07	403.1	2.418	46.6	27.7	108	211.2	10.4	20	
Phenanthrene	257.2	8.07	403.1	0.8061	63.6	20.2	139	281.3	8.98	20	
Pyrene	289.4	8.07	403.1	1.612	71.4	26.8	142	298.3	3.02	20	

Sample ID: 1110255-13AMSD	SampType: MSD	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 11/3/2011	Run ID: 5973G_111110A						
Client ID: TP-22-S-10.0	Batch ID: 29891	TestNo: 8270SIM		Analysis Date: 11/10/2011	SeqNo: 792605						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	234.3	9.09	454.1	0	51.6	33.7	111	262.5	11.3	20	
Benzo(g,h,i)perylene	274.3	9.09	454.1	7.266	58.8	15	128	293.4	6.72	20	
Chrysene	304.3	9.09	454.1	5.45	65.8	37.5	125	322.4	5.80	20	
Naphthalene	203.5	9.09	454.1	3.633	44	27.7	108	233.4	13.7	20	
Phenanthrene	300.6	9.09	454.1	3.633	65.4	20.2	139	328.8	8.95	20	
Pyrene	412.4	9.09	454.1	9.083	88.8	26.8	142	438.7	6.19	20	

Sample ID: CCB-29868	SampType: CCB	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:				Run ID: 5973G_111108A			
Client ID: ZZZZZ	Batch ID: 29868	TestNo: 8270SIM		Analysis Date: 11/9/2011				SeqNo: 792076			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	2	6.67	0	0	0	0	0	0	0		
2-Methylnaphthalene	4	6.67	0	0	0	0	0	0	0		
Acenaphthene	ND	6.67	0	0	0	0	0	0	0		
Acenaphthylene	ND	6.67	0	0	0	0	0	0	0		
Anthracene	ND	6.67	0	0	0	0	0	0	0		
Benz(a)anthracene	1.333	6.67	0	0	0	0	0	0	0		
Benzo(a)pyrene	0.6667	6.67	0	0	0	0	0	0	0		
Benzo(b)fluoranthene	4	6.67	0	0	0	0	0	0	0		
Benzo(g,h,i)perylene	3.333	6.67	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCB-29868	SampType: CCB	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5973G_111108A						
Client ID: ZZZZZ	Batch ID: 29868	TestNo: 8270SIM		Analysis Date: 11/9/2011	SeqNo: 792076						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzo(k)fluoranthene	0.6667	6.67	0	0	0	0	0	0	0		
Chrysene	1.333	6.67	0	0	0	0	0	0	0		
Dibenz(a,h)anthracene	ND	6.67	0	0	0	0	0	0	0		
Fluoranthene	1.333	6.67	0	0	0	0	0	0	0		
Fluorene	ND	6.67	0	0	0	0	0	0	0		
Indeno(1,2,3-cd)pyrene	ND	6.67	0	0	0	0	0	0	0		
Naphthalene	2.667	6.67	0	0	0	0	0	0	0		
Phenanthrene	1.333	6.67	0	0	0	0	0	0	0		
Pyrene	1.333	6.67	0	0	0	0	0	0	0		
Surr: 2-Fluorobiphenyl	4831	0	6667	0	72.5	42.6	128	0	0		
Surr: Nitrobenzene-d5	4983	0	6667	0	74.7	21.7	155	0	0		
Surr: p-Terphenyl-d14	5706	0	6667	0	85.6	44.9	155	0	0		

Sample ID: CCB-29891	SampType: CCB	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5973G_111110A						
Client ID: ZZZZZ	Batch ID: 29891	TestNo: 8270SIM		Analysis Date: 11/10/2011	SeqNo: 792426						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	0.6667	6.67	0	0	0	0	0	0	0		
2-Methylnaphthalene	0.6667	6.67	0	0	0	0	0	0	0		
Acenaphthene	ND	6.67	0	0	0	0	0	0	0		
Acenaphthylene	ND	6.67	0	0	0	0	0	0	0		
Anthracene	ND	6.67	0	0	0	0	0	0	0		
Benz(a)anthracene	4.667	6.67	0	0	0	0	0	0	0		
Benzo(a)pyrene	6	6.67	0	0	0	0	0	0	0		
Benzo(b)fluoranthene	4.667	6.67	0	0	0	0	0	0	0		
Benzo(g,h,i)perylene	6	6.67	0	0	0	0	0	0	0		
Benzo(k)fluoranthene	2	6.67	0	0	0	0	0	0	0		
Chrysene	5.333	6.67	0	0	0	0	0	0	0		
Dibenz(a,h)anthracene	ND	6.67	0	0	0	0	0	0	0		
Fluoranthene	3.333	6.67	0	0	0	0	0	0	0		
Fluorene	0.6667	6.67	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCB-29891		SampType: CCB	TestCode: PAHLL_S		Units: µg/Kg	Prep Date:				Run ID: 5973G_111110A		
Client ID: ZZZZZ		Batch ID: 29891	TestNo: 8270SIM			Analysis Date: 11/10/2011				SeqNo: 792426		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Indeno(1,2,3-cd)pyrene	1.333	6.67	0	0	0	0	0	0	0		
Naphthalene	1.333	6.67	0	0	0	0	0	0	0		
Phenanthrene	1.333	6.67	0	0	0	0	0	0	0		
Pyrene	4.667	6.67	0	0	0	0	0	0	0		
Surr: 2-Fluorobiphenyl	3834	0	6667	0	57.5	42.6	128	0	0		
Surr: Nitrobenzene-d5	3874	0	6667	0	58.1	21.7	155	0	0		
Surr: p-Terphenyl-d14	4933	0	6667	0	74	44.9	155	0	0		

Sample ID: CCV-29868		SampType: CCV		TestCode: PAHLL_S		Units: µg/Kg		Prep Date:		Run ID: 5973G_111108A			
Client ID: ZZZZZ		Batch ID: 29868		TestNo: 8270SIM				Analysis Date: 11/8/2011		SeqNo: 791741			
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	68	6.67	66.67	0	102	70	130	0	0		
2-Methylnaphthalene	70.67	6.67	66.67	0	106	70	130	0	0		
Acenaphthene	62.67	6.67	66.67	0	94	70	130	0	0		
Acenaphthylene	74.67	6.67	66.67	0	112	70	130	0	0		
Anthracene	70.67	6.67	66.67	0	106	70	130	0	0		
Benz(a)anthracene	65.33	6.67	66.67	0	98	70	130	0	0		
Benzo(a)pyrene	66	6.67	66.67	0	99	70	130	0	0		
Benzo(b)fluoranthene	68.67	6.67	66.67	0	103	70	130	0	0		
Benzo(g,h,i)perylene	56	6.67	66.67	0	84	70	130	0	0		
Benzo(k)fluoranthene	72	6.67	66.67	0	108	70	130	0	0		
Chrysene	70	6.67	66.67	0	105	70	130	0	0		
Dibenz(a,h)anthracene	58	6.67	66.67	0	87	70	130	0	0		
Fluoranthene	71.33	6.67	66.67	0	107	70	130	0	0		
Fluorene	72.67	6.67	66.67	0	109	70	130	0	0		
Indeno(1,2,3-cd)pyrene	61.33	6.67	66.67	0	92	70	130	0	0		
Naphthalene	66.67	6.67	66.67	0	100	70	130	0	0		
Phenanthrene	70	6.67	66.67	0	105	70	130	0	0		
Pyrene	72	6.67	66.67	0	108	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCV-29868	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5973G_111108A						
Client ID: ZZZZZ	Batch ID: 29868	TestNo: 8270SIM		Analysis Date: 11/9/2011	SeqNo: 792075						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	66	6.67	66.67	0	99	70	130	0	0		
2-Methylnaphthalene	74	6.67	66.67	0	111	70	130	0	0		
Acenaphthene	63.33	6.67	66.67	0	95	70	130	0	0		
Acenaphthylene	76.67	6.67	66.67	0	115	70	130	0	0		
Anthracene	72	6.67	66.67	0	108	70	130	0	0		
Benz(a)anthracene	72.67	6.67	66.67	0	109	70	130	0	0		
Benzo(a)pyrene	74.67	6.67	66.67	0	112	70	130	0	0		
Benzo(b)fluoranthene	76.67	6.67	66.67	0	115	70	130	0	0		
Benzo(g,h,i)perylene	57.33	6.67	66.67	0	86	70	130	0	0		
Benzo(k)fluoranthene	70	6.67	66.67	0	105	70	130	0	0		
Chrysene	62	6.67	66.67	0	93	70	130	0	0		
Dibenz(a,h)anthracene	65.33	6.67	66.67	0	98	70	130	0	0		
Fluoranthene	76.67	6.67	66.67	0	115	70	130	0	0		
Fluorene	72.67	6.67	66.67	0	109	70	130	0	0		
Indeno(1,2,3-cd)pyrene	61.33	6.67	66.67	0	92	70	130	0	0		
Naphthalene	63.33	6.67	66.67	0	95	70	130	0	0		
Phenanthrene	69.33	6.67	66.67	0	104	70	130	0	0		
Pyrene	76.67	6.67	66.67	0	115	70	130	0	0		

Sample ID: CCV-29891	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5973G_111110A						
Client ID: ZZZZZ	Batch ID: 29891	TestNo: 8270SIM		Analysis Date: 11/9/2011	SeqNo: 792261						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	68.67	6.67	66.67	0	103	70	130	0	0		
2-Methylnaphthalene	77.33	6.67	66.67	0	116	70	130	0	0		
Acenaphthene	64.67	6.67	66.67	0	97	70	130	0	0		
Acenaphthylene	78	6.67	66.67	0	117	70	130	0	0		
Anthracene	73.33	6.67	66.67	0	110	70	130	0	0		
Benz(a)anthracene	74	6.67	66.67	0	111	70	130	0	0		
Benzo(a)pyrene	72	6.67	66.67	0	108	70	130	0	0		
Benzo(b)fluoranthene	76	6.67	66.67	0	114	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCV-29891	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5973G_111110A						
Client ID: ZZZZZ	Batch ID: 29891	TestNo: 8270SIM		Analysis Date: 11/9/2011	SeqNo: 792261						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzo(g,h,i)perylene	57.33	6.67	66.67	0	86	70	130	0	0		
Benzo(k)fluoranthene	62.67	6.67	66.67	0	94	70	130	0	0		
Chrysene	64	6.67	66.67	0	96	70	130	0	0		
Dibenz(a,h)anthracene	62.67	6.67	66.67	0	94	70	130	0	0		
Fluoranthene	79.33	6.67	66.67	0	119	70	130	0	0		
Fluorene	75.33	6.67	66.67	0	113	70	130	0	0		
Indeno(1,2,3-cd)pyrene	61.33	6.67	66.67	0	92	70	130	0	0		
Naphthalene	69.33	6.67	66.67	0	104	70	130	0	0		
Phenanthrene	68.67	6.67	66.67	0	103	70	130	0	0		
Pyrene	79.33	6.67	66.67	0	119	70	130	0	0		

Sample ID: CCV-29891	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5973G_111110A						
Client ID: ZZZZZ	Batch ID: 29891	TestNo: 8270SIM		Analysis Date: 11/10/2011	SeqNo: 792425						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Methylnaphthalene	60.67	6.67	66.67	0	91	70	130	0	0		
2-Methylnaphthalene	74.67	6.67	66.67	0	112	70	130	0	0		
Acenaphthene	65.33	6.67	66.67	0	98	70	130	0	0		
Acenaphthylene	82	6.67	66.67	0	123	70	130	0	0		
Anthracene	72.67	6.67	66.67	0	109	70	130	0	0		
Benz(a)anthracene	72.67	6.67	66.67	0	109	70	130	0	0		
Benzo(a)pyrene	73.33	6.67	66.67	0	110	70	130	0	0		
Benzo(b)fluoranthene	79.33	6.67	66.67	0	119	70	130	0	0		
Benzo(g,h,i)perylene	61.33	6.67	66.67	0	92	70	130	0	0		
Benzo(k)fluoranthene	64.67	6.67	66.67	0	97	70	130	0	0		
Chrysene	64	6.67	66.67	0	96	70	130	0	0		
Dibenz(a,h)anthracene	69.33	6.67	66.67	0	104	70	130	0	0		
Fluoranthene	73.33	6.67	66.67	0	110	70	130	0	0		
Fluorene	72.67	6.67	66.67	0	109	70	130	0	0		
Indeno(1,2,3-cd)pyrene	66.67	6.67	66.67	0	100	70	130	0	0		
Naphthalene	69.33	6.67	66.67	0	104	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1110255
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_S

Sample ID: CCV-29891	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	Run ID: 5973G_111110A						
Client ID: ZZZZZ	Batch ID: 29891	TestNo: 8270SIM		Analysis Date: 11/10/2011	SeqNo: 792425						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	70	6.67	66.67	0	105	70	130	0	0		
Pyrene	78.67	6.67	66.67	0	118	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

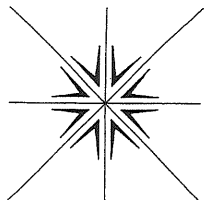
KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result great than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.

CHAIN OF CUSTODY RECORD

Page 1 of 3



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

**All samples not analyzed please hold for potential follow up*

Contact Person/Project Manager Alan Hughes

Company MFA

Address _____

Phone _____

Fax _____

Project No. 0229.04.03

Project Name Port of C/W

Project Site Location OR _____

WA X Other _____

Invoice To _____

P.O. No. _____

Collected By: _____

Signature _____

Printed _____

Signature _____

Printed _____

Turn Around Time

☒ Normal 5-7 Business Days

☐ Rush _____

Specify _____

Rush Analyses Must Be Scheduled With The Lab In Advance

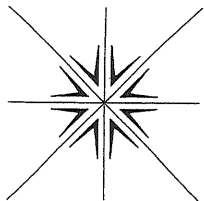
				No. of Containers	Analyses										For Laboratory Use						
Date	Time	Sample I.D.	Matrix		NUTRA-DX	PAH 8270 SIM	PCB	TOTAL METAL RCRAB	VOC 8260B							Lab Job No.	Shipped Via	Air Bill No.	Temperature On Receipt	Specialty Analytical Containers?	Specialty Analytical Trip Blanks?
10/28	8:15	TP-19-S-1.5	S	1	HOLD	X	X	X											5	Y	Y
	8:25	TP-19-S-3.5		1		X	X	X													
	8:50	TP-19-S-6.0		1	HOLD	X	X	X													
	9:00	TP-19-S-10.0		1	HOLD																
	9:20	TP-20-S-1.5		1	HOLD																
	9:30	TP-20-S-4.0		1		X	X	X													
	9:45	TP-20-S-10.0		1	HOLD	X	X	X													
	10:00	TP-21-S-1.5		1	HOLD																
	10:10	TP-21-S-4.0		1		X	X	X													
	10:21	TP-21-S-10.0		1	HOLD																
	10:40	TP-22-S-1.5		1	HOLD	X	X	X													
	10:45	TP-22-S-3.0		1		X	X	X													

Relinquished By: <u>[Signature]</u>	Date	Time	Received By: <u>Nikki Bippes</u>	Relinquished By: <u>[Signature]</u>	Date	Time
Company: <u>MFA</u>	10/28	19:00	Company: <u>Specialty</u>	Company: _____		

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt. Samples held beyond 60 days subject to storage fee(s)			Received For Lab By: <u>Nikki Bippes</u>	Date	Time
				10/31/11	1345

CHAIN OF CUSTODY RECORD

Page 2 of 3



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

All samples not
analyzed please hold
for potential
follow up

Contact Person/Project Manager Alan Hughes

Company MFA

Address _____

Phone _____ Fax _____

Project No. 0229104103 Project Name Port of C/W

Project Site Location OR _____ WA X Other _____

Invoice To _____ P.O. No. _____

Collected By: _____

Signature _____

Printed _____

Signature _____

Printed _____

Turn Around Time

☒ Normal 5-7 Business Days

☐ Rush _____

Specify

Rush Analyses Must Be Scheduled With The Lab In Advance

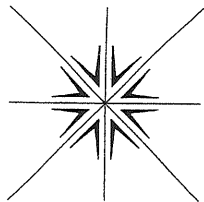
				Analyses										For Laboratory Use								
Date	Time	Sample I.D.	Matrix	No. of Containers	NWTPH-DX	PAH 8270 SIM	PCB	Total Metals (RLFA 8)	VOC 8260B							Lab Job No.	Shipped Via	Air Bill No.	Temperature On Receipt	Specialty Analytical Containers?	Specialty Analytical Trip Blanks?	
10/28	11:20	TP-22-S-10.0	S	1													1110255	Specialty		5	Y/N	Y/N
	11:55	TP-23-S-3.0		5	X	X		X	X													
	12:10	TP-23-S-5.0		5																		
	12:30	TP-24-S-1.0		5	X	X		X	X													
	12:45	TP-24-S-8.0		5																		
	13:00	TP-24-S-5.0		5																		
	13:20	TP-25-S-1.0		5	X	X		X	X													
	13:30	TP-25-S-3.0		5																		
	13:40	TP-25-S-5.0		5																		
	14:05	TP-26-S-1.0		5	X	X		X	X													
	14:10	TP-26-S-3.0		5																		
	14:15	TP-26-S-5.0		5																		

Relinquished By: <u>[Signature]</u>	Date	Time	Received By: <u>Nikki Bypper</u>	Relinquished By: <u>[Signature]</u>	Date	Time
Company: <u>MFA</u>	10/28	19:00	Company: <u>Specialty</u>	Company: _____		

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt. Samples held beyond 60 days subject to storage fee(s)	Received For Lab By: <u>Nikki Bypper</u>	Date	Time
		10/31/11	1345

CHAIN OF CUSTODY RECORD

Page 3 of 3



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

* All Samples not
analyzed please hold
for potential follow-up

Contact Person/Project Manager Arian Hughes

Company MFA

Address _____

Phone _____ Fax _____

Project No. 0229-04-03 Project Name Port of C/W

Project Site Location OR _____ WA X Other _____

Invoice To _____ P.O. No. _____

Collected By: _____

Signature _____

Printed _____

Signature _____

Printed _____

Turn Around Time

☒ Normal 5-7 Business Days

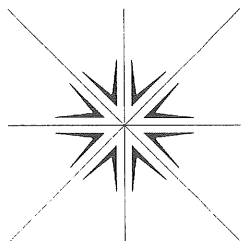
☐ Rush _____

Specify

Rush Analyses Must Be Scheduled With The Lab In Advance

				Analyses										For Laboratory Use					
				No. of Containers	NWTPH-DX	PAH 8270 SIM	PCB	TOTAL METAL PCBs	VOC 8260 B	Mercury							Lab Job No. <u>1110255</u>	Shipped Via <u>Specialty</u>	Air Bill No. _____
10/28	14:30	TP - 27 - S - 1.0	S	5	X	X		X	X										
	14:35	TP - 27 - S - 3.0		5	HOLD														
	14:45	TP - 27 - S - 5.0		5	HOLD														
	15:00	TP - 28 - S - 1.0		5	X	X		X	X										
	15:10	TP - 28 - S - 3.0		5	HOLD														
	15:15	TP - 28 - S - 5.0		5	HOLD														
	15:30	TP - 29 - S - 1.0		5	X	X		X	X										
	15:35	TP - 29 - S - 3.0		5	HOLD					⊗									
	15:45	TP - 29 - S - 5.0		5	HOLD														

Relinquished By: <u>MFA</u>	Date: <u>10/28</u>	Time: <u>19:00</u>	Received By: <u>Nikki Brappes</u>	Company: <u>Specialty</u>	Relinquished By: <u>[Signature]</u>	Date: _____	Time: _____
Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt. Samples held beyond 60 days subject to storage fee(s)					Received For Lab By: <u>Nikki Brappes</u>	Date: <u>10/31/11</u>	Time: <u>13:45</u>



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
(503) 607-1331
Fax (503) 607-1336

November 11, 2011

Alan Hughes
Maul, Foster & Alongi
400 East Mill Plain Blvd
Suite 400
Vancouver, WA 98660

TEL: (360) 694-2691

FAX: (360) 906-1958

RE: Port of C/W / 0229.04.03

Dear Alan Hughes:

Order No.: 1111072

Specialty Analytical received 1 sample on 10/28/2011 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,


Cindy Hillyard
Project Manager


Technical Review

Specialty Analytical

Date: 11-Nov-11

CLIENT: Maul, Foster & Alongi
Lab Order: 1111072
Project: Port of C/W / 0229.04.03
Lab ID: 1111072-01

Client Sample ID: Comp (TP-16 & TP-17)
Collection Date: 10/27/2011

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCLP METALS		E1311/6010				Analyst: cmt
Lead, TCLP	0.576	0.100		mg/L	1	11/11/2011 1:02:44 PM
TCLP MERCURY		1311/7000				Analyst: zau
Mercury, TCLP	ND	0.000100		mg/L	1	11/11/2011

CLIENT: Maul, Foster & Alongi
Work Order: 1111072
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT**TestCode: 6010_TCLP**

Sample ID: MBLK-29960	SampType: MBLK	TestCode: 6010_TCLP	Units: mg/L	Prep Date: 11/11/2011	Run ID: TJA IRIS_111111A
Client ID: ZZZZZ	Batch ID: 29960	TestNo: E1311/6010		Analysis Date: 11/11/2011	SeqNo: 792977
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead, TCLP	ND	0.0200			

Sample ID: LCS-29960	SampType: LCS	TestCode: 6010_TCLP	Units: mg/L	Prep Date: 11/11/2011	Run ID: TJA IRIS_111111A
Client ID: ZZZZZ	Batch ID: 29960	TestNo: E1311/6010		Analysis Date: 11/11/2011	SeqNo: 792978
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead, TCLP	0.9832	0.0200	1	0	98.3 93.1 112 0 0

Sample ID: 1111072-01AMS	SampType: MS	TestCode: 6010_TCLP	Units: mg/L	Prep Date: 11/11/2011	Run ID: TJA IRIS_111111A
Client ID: Comp (TP-16 & TP-1)	Batch ID: 29960	TestNo: E1311/6010		Analysis Date: 11/11/2011	SeqNo: 792981
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead, TCLP	5.195	0.100	5	0.5765	92.4 91.9 112 0 0

Sample ID: 1111072-01AMSD	SampType: MSD	TestCode: 6010_TCLP	Units: mg/L	Prep Date: 11/11/2011	Run ID: TJA IRIS_111111A
Client ID: Comp (TP-16 & TP-1)	Batch ID: 29960	TestNo: E1311/6010		Analysis Date: 11/11/2011	SeqNo: 792982
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead, TCLP	5.235	0.100	5	0.5765	93.2 91.9 112 5.195 0.767 20

Sample ID: 1111072-01ADUP	SampType: DUP	TestCode: 6010_TCLP	Units: mg/L	Prep Date: 11/11/2011	Run ID: TJA IRIS_111111A
Client ID: Comp (TP-16 & TP-1)	Batch ID: 29960	TestNo: E1311/6010		Analysis Date: 11/11/2011	SeqNo: 792980
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead, TCLP	0.6465	0.100	0	0	0 0 0 0.5765 11.4 20

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1111072
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_TCLP

Sample ID: CCV		SampType: CCV		TestCode: 6010_TCLP		Units: mg/L		Prep Date:			Run ID: TJA IRIS_111111A		
Client ID: ZZZZZ		Batch ID: 29960		TestNo: E1311/6010				Analysis Date: 11/11/2011			SeqNo: 792985		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead, TCLP	0.9838	0.0200	1	0	98.4	90	110	0	0		
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Sample ID: CCV	SampType: CCV	TestCode: 6010_TCLP	Units: mg/L	Prep Date:				Run ID: TJA IRIS_111111A			
Client ID: ZZZZZ	Batch ID: 29960	TestNo: E1311/6010		Analysis Date: 11/11/2011				SeqNo: 792989			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead, TCLP	0.9745	0.0200	1	0	97.4	90	110	0	0		
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Sample ID: ICV		SampType: ICV		TestCode: 6010_TCLP		Units: mg/L		Prep Date:		Run ID: TJA IRIS_111111A	
Client ID: ZZZZZ		Batch ID: 29960		TestNo: E1311/6010				Analysis Date: 11/11/2011		SeqNo: 792976	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead, TCLP	0.9544	0.0200	1	0	95.4	90	110	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1111072
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_TCLP

Sample ID: MB-29964	SampType: MBLK	TestCode: HG_TCLP	Units: mg/L	Prep Date: 11/11/2011	Run ID: CVAA_111111A
Client ID: ZZZZZ	Batch ID: 29964	TestNo: 1311/7000		Analysis Date: 11/11/2011	SeqNo: 792959
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury, TCLP ND 0.000100

Sample ID: LCS-29964	SampType: LCS	TestCode: HG_TCLP	Units: mg/L	Prep Date: 11/11/2011	Run ID: CVAA_111111A
Client ID: ZZZZZ	Batch ID: 29964	TestNo: 1311/7000		Analysis Date: 11/11/2011	SeqNo: 792958
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury, TCLP 0.004115 0.000100 0.004 0 103 85.4 116 0 0

Sample ID: 1111072-01AMS	SampType: MS	TestCode: HG_TCLP	Units: mg/L	Prep Date: 11/11/2011	Run ID: CVAA_111111A
Client ID: Comp (TP-16 & TP-1	Batch ID: 29964	TestNo: 1311/7000		Analysis Date: 11/11/2011	SeqNo: 792955
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury, TCLP 0.003923 0.000100 0.004 0 98.1 69.5 125 0 0

Sample ID: 1111072-01AMSD	SampType: MSD	TestCode: HG_TCLP	Units: mg/L	Prep Date: 11/11/2011	Run ID: CVAA_111111A
Client ID: Comp (TP-16 & TP-1	Batch ID: 29964	TestNo: 1311/7000		Analysis Date: 11/11/2011	SeqNo: 792956
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury, TCLP 0.004088 0.000100 0.004 0 102 69.5 125 0.003923 4.12 20

Sample ID: 1111072-01ADUP	SampType: DUP	TestCode: HG_TCLP	Units: mg/L	Prep Date: 11/11/2011	Run ID: CVAA_111111A
Client ID: Comp (TP-16 & TP-1	Batch ID: 29964	TestNo: 1311/7000		Analysis Date: 11/11/2011	SeqNo: 792954
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury, TCLP ND 0.000100 0 0 0 0 0 0 0 0 20

Sample ID: CCV	SampType: CCV	TestCode: HG_TCLP	Units: mg/L	Prep Date:	Run ID: CVAA_111111A
Client ID: ZZZZZ	Batch ID: 29964	TestNo: 1311/7000		Analysis Date: 11/11/2011	SeqNo: 792957
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1111072
Project: Port of C/W / 0229.04.03

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_TCLP

Sample ID: CCV	SampType: CCV	TestCode: HG_TCLP	Units: mg/L	Prep Date:	Run ID: CVAA_111111A						
Client ID: ZZZZZ	Batch ID: 29964	TestNo: 1311/7000		Analysis Date: 11/11/2011	SeqNo: 792957						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury, TCLP	0.0036	0.000100	0.004	0	90	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result great than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

[illegible]

APPENDIX E

DATA VALIDATION MEMORANDUM



DATA QUALITY ASSURANCE/QUALITY CONTROL REVIEW

PROJECT NO. 0229.04.03 | OCTOBER 10, 2011 | PORT OF CAMAS-WASHOUGAL

This report reviews the analytical results for soil and water samples collected by the Maul Foster & Alongi, Inc. (MFA) project team on the Port of Camas-Washougal site. The samples were collected in September 2011.

Specialty Analytical (SA) and Analytical Resources, Incorporated (ARI) performed the analyses. SA report numbers 1109044, 1109045, 1109059, 1109060, 1109062, 1109122, 1110043, 1110044, 1110248rev1, and ARI report number TN10 were reviewed. The analyses performed are listed below.

Analysis	Reference
Total Metals	USEPA 6010A
Total Metals by ICP/MS	USEPA SW6020
Volatile Organic Compounds	USEPA 8260B
Polycyclic Aromatic Hydrocarbons	USEPA 8270SIM
PCBs	USEPA 8082
Semivolatile Organic Compounds	USEPA 8270D
Diesel and Lube Oil	NWTPH-Dx
Gasoline	NWTPH-Gx
TCLP Metals	USEPA 1311/6010
Mercury	USEPA SW7471
Particle Size Distribution	D422
Total Solids	A2216
Total Organic Carbon	USEPA SW9060

NWTPH = Northwest Total Petroleum Hydrocarbons.

PCB = polychlorinated biphenyl.

TCLP = toxicity characteristic leaching procedure.

USEPA = U.S. Environmental Protection Agency.

DATA QUALIFICATION

Analytical results were evaluated according to applicable sections of USEPA procedures (USEPA, 2004, 2008), and appropriate laboratory and method-specific guidelines (ARI, 2009; SA, 2010; USEPA, 1986).

The laboratory provided the following case narrative for samples in report number 1109062: “The Laboratory Control Sample recovery of 1, 1-Dichloroethene for Volatile Organic Compounds by EPA 8260B was outside laboratory control limits (high). All associated samples were non-detect for this compound.”

The laboratory provided the following case narrative for samples SP-1, SP-2, SS-23-1, and SS-24-1: “Specialty Analytical Sample No.’s 1109062-13, -14, -18, and -19 were analyzed for PCB Aroclor’s by EPA 8082. The samples contain Aroclor 1260 plus additional peaks that appear to be from a different Aroclor, but are unidentifiable. Additional analysis may be required to identify and quantify these compounds.”

The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned.

HOLDING TIMES, PRESERVATION, AND SAMPLE STORAGE

Holding Times

Samples TP-4-3 (USEPA Method SW7471), SS-1-1.5 (USEPA Method 8270SIM), SS-11-2 (USEPA Method 8270SIM), and SS-14-1 (USEPA 8260B) as part of lab reports 1110043 and 1110044 were analyzed outside recommended holding times. Sample extractions were conducted 29 days after collection; thus USEPA Method 8260B result non-detects were rejected “R,” 8260B detections were flagged as estimated “J,” and USEPA Method 8270SIM and SW7471 were qualified as estimated “J.”

Sample MW-07 by USEPA Method 8270SIM and Method 8270D (followup analyses) as part of lab report 1110248rev1 were analyzed outside recommended holding times. Sample extractions were conducted 12 and 13 days after collection; based on function guidelines and the use of professional judgment, the reviewer has qualified all results analyzed by USEPA Method 8270SIM and 8270D as “J” estimated or “UJ.”

All other extractions and analyses were performed within the recommended holding time criteria.

Preservation and Sample Storage

The samples were preserved and stored appropriately.

BLANKS

Method Blanks

Laboratory method blank analyses were performed at the required frequencies. The reviewer took no action based on minor method blank detections, as the associated samples were either non-detects or had results greater than 10 times that of the method blank hit.

Trip Blanks

Trip blanks were not required for this sampling event.

Equipment Rinse Blanks

Equipment rinse blanks were not required for this sampling event, as all samples were collected using dedicated, single-use equipment.

SURROGATE RECOVERY RESULTS

The samples were spiked with surrogate compounds to evaluate laboratory performance on individual samples.

The reviewer took no action based on minor surrogate outliers or surrogate percent recoveries that were outside of acceptance limits, as the laboratory appropriately documented and qualified surrogate outliers. Associated batch quality assurance and quality control (QC) for samples with surrogate outliers were within acceptance limits. All remaining surrogate recoveries were within acceptance limits.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

MS/MSD results are used to evaluate laboratory precision and accuracy. All MS/MSD samples were extracted and analyzed at the required frequency. Various recovery results were outside acceptance limits because of one or more of the following:

- The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.
- Matrix interferences prevented accurate quantitation of the spike recovery.

The reviewer took no action based on minor MS/MSD outliers, as batch laboratory control sample (LCS) percent recoveries were within acceptance limits and remaining MS/MSD results were within acceptance limits for percent recovery and relative percent difference (RPD). In cases of MS/MSD exceedances, the laboratory appropriately documented and qualified the outliers. The reviewer added the following qualifications:

Sample	Component	Original Result	Qualified Result
Sed-01	Lead	5.16	5.16 J
Sed-02	Lead	5.46	5.46 J
Sed-03	Lead	4.73	4.73 J
Sed-04	Lead	8.94	8.94 J
Sed-01	Antimony	107	107 UJ
Sed-02	Antimony	145	145 J
Sed-03	Antimony	103	103 UJ
Sed-04	Antimony	153	153 J
Open Pit 1-S-20.5	Barium	213	213 J

Sample	Component	Original Result	Qualified Result
Open Pit 1-S-20.5	Chromium	16.1	16.1 J
Open Pit 1-S-20.5	Lead	7.86	7.86 J

All other MS/MSD recoveries and RPDs were within acceptance limits.

LABORATORY DUPLICATE RESULTS

Duplicate results are used to evaluate laboratory precision. All duplicate samples were extracted and analyzed at the required frequency. Based on RPD limit exceedances, the reviewer made the following qualifications:

Sample	Component	Original Result	Qualified Result
TP-5-8	Barium	186	186 J
TP-7-2	Barium	106	106 J
TP-8-1.5	Barium	238	238 J
SS-1-1.5	Barium	147	147 J
SS-2-1.5	Barium	139	139 J

Various other recovery results were outside of acceptance limits because of matrix interferences preventing accurate quantitation. The reviewer took no action, as other batch QC was within acceptance limits. In cases of exceedances, the laboratory appropriately documented and qualified the outliers.

LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RESULTS

An LCS/laboratory control sample duplicate (LCSD) is spiked with target analytes to provide information on laboratory precision and accuracy. The LCS/LCSD samples were extracted and analyzed at the required frequency. No actions were taken for minor exceedances of LCSD RPDs, as all associated samples were non-detects and all other batch QC met acceptance criteria.

FIELD DUPLICATE RESULTS

No field duplicates were submitted.

REPORTING LIMITS

SA used routine reporting limits for non-detect results, except for samples requiring dilutions because of high analyte concentrations and/or matrix interferences.

DATA PACKAGE

The data packages were reviewed for transcription errors, omissions, and anomalies. None were found.

REFERENCES

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